



September 26, 2013

Ms. Becky L. France **Environmental Engineer Senior** Blue Ridge Regional Office Virginia Department of Environmental Quality 3019 Peters Creek Road Roanoke, VA 24019



Re:

Western Virginia Water Authority Water Pollution Control Plant VPDES Permit Reissuance Application Amendment 3, Additional Outfall 009 Oil and Grease Data, VPDES Permit No. VA0025020; CHA Project Number 25154

Dear Ms. France:

Enclosed is a copy of the lab report for an additional Oil and Grease sample collected at Outfall 009. This sample was collected on September 20, 2013 during a qualifying precipitation event. In addition, we have enclosed a revised page of the Form 2F to include this data. As always, please do not hesitate to contact Scott Shirley at (540) 853-1283 or me should you have any questions or require any additional information.

Sincerely,

R. Lawrence Hoffman

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Vice President

RLH/egl **Enclosures** 

S. Scott Shirley, Director of Wastewater Operations, Western Virginia Water Authority (w/encl.) Janis Richardson, Environmental Programs Coordinator, Western Virginia Water Authority (w/o encl.) Marty Sensabaugh, Wastewater Operation Manager, Western Virginia Water Authority (w/o encl.)





August 23, 2013

Ms. Becky L. France **Environmental Engineer Senior** Blue Ridge Regional Office Virginia Department of Environmental Quality 3019 Peters Creek Road Roanoke, VA 24019

#### HAND DELIVERED

Re: Western Virginia Water Authority Water Pollution Control Plant VPDES Permit Reissuance Application, VPDES Permit No. VA0025020; CHA Project Number 25154

Dear Ms. France:

Enclosed is the original signed Virginia Pollutant Discharge Elimination System (VPDES) permit reissuance application for the Western Virginia Water Authority Water Pollution Control Plant. Also enclosed is a CD that contains the pdf versions of each of the application files and we will provide by email information for downloading these files through our ftp site. This application is submitted by CHA Consulting Inc. on behalf of the Western Virginia Water Authority and includes the following documents:

- 1. EPA Form 2A;
- 2. DEQ Application Addendum;
- 3. EPA Form 2F;
- 4. VPDES Sewage Sludge Permit Application Form; and
- 5. Public Notice Billing Information Form.

The application also includes copies of the Outfall 001 effluent analyses laboratory reports used to prepare the Form 2A application and a copy of the Outfall 009 storm water analysis laboratory report used to prepare the Form 2F application.

The Form 2F application includes storm water data for Outfall 009. Monitoring data is not provided for Outfalls 008 and 011. Outfall 008 is currently disconnected due to construction of the new chlorine contact facility within the drainage basin. This outfall is expected be out of service for approximately two years. Outfall 011 has not discharged during the current permit term.

As we discussed during the August 12, 2013 pre-application meeting and site walkover, we plan to provide additional chronic toxicity testing data to support the reasonable potential evaluation for whole effluent toxicity. The data for two additional Ceriodaphnia chronic tests will be provided in the next four weeks.

As observed during the site walkover, the Authority is currently in the process of making improvements to the chlorine contact and the BAF systems to provide additional treatment capacity for wet weather flow events. These improvements, along with the ongoing collection system improvements, represent a significant investment by the Authority to reduce inflow and infiltration and provide high levels of treatment during wet weather flow events.

The application documents are submitted with the following requests:

- 1. <u>Flow Tiers</u>: The Authority requests that the reissued permit include the 55 MGD and 62 MGD tiers included in the current permit.
- 2. Flow-based Wet Weather Loading Limits: In recognition of the wet weather treatment improvements and the associated commitment by the Authority to treat additional wet weather flows, the Authority requests that the reissued permit include flow-based wet weather loading limits for conventional pollutants at levels greater than currently used for the standard 55 MGD and 62 MGD design flows. We request that these loading tiers reflect the enhanced wet weather treatment capacity that will be available upon completion of the ongoing chlorination and BAF system improvements.
- 3. <u>Biosolids Demonstration Area</u>: As part of its ongoing public education commitment, the Authority requests DEQ approval through the VPDES permit to develop a small biosolids application demonstration area at the water pollution control plant. The facility currently has a small fish habitat in front of the Administration Building that is fed by treated effluent; this area is included in plant tours to demonstrate the high degree of treatment provided by the facility. The biosolids demonstration area is intended to depict the benefits of biosolids applications. As conceived, the area will be approximately 30' x 30' and will be located adjacent to, and on the east side of the Administration Building.

We appreciate your sincere consideration of these requests and we remain available to discuss these requests or any information included in the permit application at your convenience. As always, please do not hesitate to contact Scott Shirley at (540) 853-1283 or me should you have any questions or require any additional information.

Sincerely,

R. Lawrence Hoffman

Vice President

RLH/egl Enclosures

Michael McEvoy, Executive Director-Wastewater Services, Western Virginia Water Authority (w/encl.)
 S. Scott Shirley, Director of Wastewater Operations (w/encl.)
 Janis Richardson, Environmental Programs Coordinator, Western Virginia Water Authority (w/o encl.)
 Marty Sensabaugh, Wastewater Operation Manager, Western Virginia Water Authority (w/o encl.)



# **Reissuance Application**

VPDES Permit No. VA0025020

# Western Virginia Water Authority Water Pollution Control Plant

CHA Project Number: 25154

Prepared for:

Western Virginia Water Authority 1502 Brownlee Ave SE Roanoke, VA 24014

Prepared by:

CHA

1901 Innovation Drive Suite 2100 Blacksburg, VA, 24060 Phone: (540) 552-5548 Fax: (540) 552-5577



Form Approved 1/14/99

OMB Number 2040-0086

FORM

2A NPDES

#### NPDES FORM 2A APPLICATION OVERVIEW

#### APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

#### BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

#### SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
  - 1. Has a design flow rate greater than or equal to 1 mgd,
  - 2. Is required to have a pretreatment program (or has one in place), or
  - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastwater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
  - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
  - 2. Any other industrial user that:
    - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions): or
    - b. Contributes a process wastewater that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
    - c. Is designed as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sexes).

#### ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

#### **BASIC APPLICATION INFORMATION**

		TION INFORMATION FOR ALL A plete questions A.1 through A.8 of th			<b>的现在分词,从一等</b> 重体形成的
	Facilty Information.	sete quotiene in it an ought into of an	io Duoio App	Silvation miorination packet	
	Facilty Name	Western Virginia Water Authori	ty Water Do	Illution Control Plant	
	Mailing Address		ly water Fo	mution Control Plant	
	Mailing Address	1502 Brownlee Avenue, S.E.			
		Roanoke, VA 24014			
	Contact Person	Scott Shirley			
	Title	Director of Wastewater Operation	ons		
	Telephone Number	(540) 853-1283			
	Facilty Address	Same as mailing address			
	(not P.O. Box)				
	Applicant Information.	If the applicant is different from the	above provi	de the following:	
	Applicant Name	and approach to amoroth from the	accve, provi	de trie following.	
	Mailing Address				
	Contact Person				
	Title		2.000		
	Telephone number				
	Is the applicant the owner	r or operator (or both) of the treatme	nt works?		
	X owner		iit works:		
	The state of the s	Xoperator			
		ondence regarding this permit should	d be directed	d to the facility or the applica	ant.
	X facility	applicant			
	issued to the treatment w	<b>Permits.</b> Provide the permit number orks (include state-issued permits).	er of any exis	sting environmental permits	that have been
	NPDES <u>VA0025020</u>		PSD		
	UIC		Other	Air Emissions Registrati	on No. 21529
	RCRA		Other		
-	Collection System Information	tion. Provide information on municipaliti	es and areas	served by the facility. Provide	the name and population of e
1		information on the type of collection syst	em (combined	d vs. separate) and its ownersh	ip (municipal, private, etc.).
	Name	Population Served	Type o	f Collection System	Ownership
	City of Roanoke	~92,600	45.7%	Separate	Municipal
_	Roanoke County	~90,400		Separate	Municipal
	City of Salem	~25,200	<u> </u>	Separate	Municipal
-	<b>Botetourt County</b>	~32,000		Separate	Municipal
-	Town of Vinton	~7,900		Separate	

WPCP for the purpose of completing this application; this information has not been field verified by personnel

completing this application.

mad

intermittent?

Does the treatment works land-apply treated wastewater?

If yes, provide the following for each land application site:

continuous or

Does the treatment works discharge or transport treated or untreated wastewater to another treatment

Annual average daily volume applied to site:

Is land application

works?

Yes

No

X No

If transport is by party oth	er than the applicant, provid-	e:		
Transporter Name				
Mailing Address				
Contact Person				
Title				N. T
Telephone Number				
For each treatment wo	rks that receives this disch	narge, provide the following:		
Name				
Mailing Address				
Contact Person				
Title				
Telephone Number				
If known, provide the NP	DES permit number of the tre	atment works that receives this di	scharge.	
Provide the average daily	flow rate from the treatment	works into the receiving facility.		mgd
Does the treatment works	discharge or dispose of its	wastewater in a manner not includ	led in	
A.8.a through A.8.d abov	e (e.g., underground percolate	tion, well injection)?	Yes	_X_No
If yes, provide the following	ng for each disposal method:			
Description of method (in	cluding location and size of s	ite(s) if applicable):		

**WASTEWATER DISCHARGES:** 

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

De	escription of Outfall.						
a.	Outfall number	001					
b.	Location	Roanoke			24014		
		(City or town,	if applicable)		(Zip Cod	de)	The state of the s
		Roanoke			Virginia	a	
		(County)			(State	)	
		37° 15' 50"		4	79° 54'		
		(Latitude)			(Longitue	de)	
C.	Distance from shore	e (if applicable)		NA	ft.		
d.	Depth below surface	e (if applicable)		NA	ft.		
e.	Average daily flow r	ate		39.88	mgd	(average	from 3/09-6/13)
f.	Does this outfall have	e either an intern	nittent or				
	periodic discharge?			Yes	x	No	(go to A.9.g)
	Number of times pe	r year discharge	occurs:	The state of the state of			
	Average duration of	each discharge:					
	Average flow per dis	scharge:				mgd	
	Months in which disc	charge occurs:	_			_	
g.	Is outfall equipped w	vith a diffuser?	<u> </u>	Yes	X	No	
). De	scription of Receiving \	Waters					
a.	Name of receiving w	vater R	oanoke River	r			
b.	Name of watershed	(if known)	Upp	er Roanoke Wate	ershed		
	United States Soil C	onservation Serv	ice 14-digit wa	atershed code (if k	nown):		
		agement/River Ba	sin (if known):			THE	
c.	Name of State Mana	9					
c.	Name of State Mana United States Geolo		git hydrologica	al cataloging unit c	ode (if know	n):	3010101
c. d.		gical Survey 8-di		al cataloging unit c			3010101

Form Approved 1/14/99

OMB Number 2040-0086

Primar		provided:	Check all that a	ppiy.					
	у		Secondary						
XAdvand	ced		Other.	Describe:					
b. Indicate the fol	lowing remov	val rates (as	applicable)						
Design BOD <sub>5</sub> r	emoval <u>or</u> De	esign CBOD	0 <sub>5</sub> removal			9	7	%	
Design SS rem	noval					9	7	%	
Design P remo	val					9	6	%	
Design N remo	val (TKN)					9	1	%	
Other			I rates estimate and VPDES pe		n design influent			%	
c. What type of di	isinfection is	used for the	e effluent from thi	s outfall? I	f disinfection varie	es by season, plea	se describe.		
Chlorination				100					
If disinfection is	s by chlorinat	ion, is dech	lorination used fo	or this outfa	II?	Yes		No	
d. Does the treatn	nent plant ha	ve post aer	ation?			Yes		No	
collected through at 40 CFR Part 136 and minimum, effluent to	nalysis cond d other appro	lucted usin opriate QA	g 40 CFR Part 1 QC requirement	36 method ts for stand	ls. In addition, to	r analytes not ad	mply with QA/ dressed by 40	QC req	uirements of art 136. At a
40 CFR Part 136 and	nalysis cond d other appro esting data r	lucted usin opriate QA	ng 40 CFR Part 1 /QC requirement sed on at least t	36 method ts for stand	ls. In addition, to	nis data must co r analytes not ad	mply with QA/ dressed by 40	QC req	ased on data uirements of art 136. At a
40 CFR Part 136 and minimum, effluent to Outfall number:	nalysis cond d other appro esting data r	lucted usin opriate QA must be ba (from 3/09-	ng 40 CFR Part 1 /QC requirement sed on at least t	36 method ts for stand hree samp	ls. In addition, to	nis data must co r analytes not ad no more than fo	mply with QA/ dressed by 40 ur and one-ha	QC req CFR Palf years	ased on data uirements of art 136. At a
40 CFR Part 136 and minimum, effluent to	nalysis cond d other appro esting data r	Jucted using opriate QA must be ba	ng 40 CFR Part 1 /QC requirement sed on at least t	36 method ts for stand hree samp	ls. In addition, to	nis data must co r analytes not ad no more than fo AVERAGE	mply with QA/ dressed by 40	QC req 0 CFR P alf years	ased on data uirements of art 136. At a s apart.
40 CFR Part 136 and minimum, effluent to Outfall number:	nalysis cond d other appro esting data r	lucted usin opriate QA nust be ba  (from 3/09-	ng 40 CFR Part 1 /QC requirement sed on at least t 6/13)	36 method ts for stand three samp	ls. In addition, to dard methods fo oles and must be	nis data must co r analytes not ad no more than fo AVERAGE	mply with QA/ dressed by 40 ur and one-ha	QC req 0 CFR P alf years	ased on data uirements of art 136. At a s apart.
40 CFR Part 136 and minimum, effluent to Outfall number:  PARAMETER	nalysis cond d other appro esting data r	lucted usin ppriate QA must be ba  (from 3/09-	ng 40 CFR Part 1 /QC requirement sed on at least t 6/13)  AXIMUM DAILY V	36 method ts for stand hree samp	ls. In addition, to dard methods fo oles and must be	nis data must co r analytes not ad no more than fo AVERAGE	mply with QA/ dressed by 40 ur and one-ha	QC req 0 CFR P alf years	ased on data uirements of lart 136. At a s apart.
40 CFR Part 136 and minimum, effluent to Outfall number:  PARAMETER  Minimum)  Maximum)  Rate	nalysis cond d other appro esting data r	lucted usin opriate QA nust be ba  (from 3/09-	ag 40 CFR Part 1 /QC requirement sed on at least t  6/13)  AXIMUM DAILY V  alue  5.8	36 method ts for stand hree samp /ALUE Units s.u.	ls. In addition, to dard methods fo oles and must be	anis data must con analytes not ad no more than fo	mply with QA/ dressed by 40 ur and one-ha	QC req 0 CFR P alf years	ased on data uirements of art 136. At a s apart. ber of Sample ~1,550
40 CFR Part 136 and minimum, effluent to Outfall number:  PARAMETER  Minimum)  Maximum)	nalysis cond d other appro esting data r	lucted usin opriate QA/must be ba	ag 40 CFR Part 1 /QC requirement sed on at least t  6/13)  AXIMUM DAILY V  alue  5.8	36 method ts for stand hree samp ALUE Units s.u. s.u.	ls. In addition, the dard methods for other services and must be value	AVERAGE	mply with QA/ dressed by 40 ur and one-ha DAILY VALUE Units	QC req 0 CFR P alf years	ased on data uirements of lart 136. At a s apart. ber of Sample ~1,550 ~1,550
40 CFR Part 136 and minimum, effluent to minimum, effluent to Outfall number:  PARAMETER  Minimum)  Maximum)  Rate erature (Winter)	nalysis cond d other appro esting data r	lucted usin opriate QA/must be ba  (from 3/09-  MA/  Va  6  7  13	ag 40 CFR Part 1 /QC requirement sed on at least t  6/13)  AXIMUM DAILY V  alue  5.8  7.39	36 method ts for stand hree samp /ALUE Units s.u. s.u.	Is. In addition, the dard methods for other services and must be Value	AVERAGE	mply with QA/dressed by 40 ur and one-had	QC req 0 CFR P alf years	ber of Sample ~1,550 ~1,550 continuous
40 CFR Part 136 and minimum, effluent to minimum, effluent to Outfall number:  PARAMETER  Minimum)  Maximum)  Rate erature (Winter) Mar, 2010-2013) erature (Summer)	nalysis cond d other appro esting data r	Iucted usin opriate QA must be ba  (from 3/09-  MA  Va  6  7  13  16	AXIMUM DAILY Value  6.8  7.39  6.9	36 method ts for stand hree samp ALUE Units s.u. s.u. MGD	Value	AVERAGE	mply with QA/dressed by 40 ur and one-had DAILY VALUE Units  MGD	QC req 0 CFR P alf years	ber of Sample ~1,550 ~1,550 continuous
Outfall number:  PARAMETER  Minimum)  Maximum)  Rate  erature (Winter)  Mar, 2010-2013)  erature (Summer)  sep, 2009-2012)	nalysis cond d other appro esting data r	Incted usin opriate QA must be ba with the	AXIMUM DAILY Value  6.8  7.39  6.9	36 method ts for stand hree samp ALUE Units s.u. s.u. MGD	Value	AVERAGE	mply with QA/dressed by 40 ur and one-had DAILY VALUE Units  MGD  °F  °F	QC req 0 CFR P alf years Num	ber of Sample ~1,550 ~1,550 continuous
Outfall number:  PARAMETER  Minimum)  Maximum)  Rate  erature (Winter)  Mar, 2010-2013)  erature (Summer)  iep, 2009-2012)  * For pH please repor	nalysis cond I other appro esting data r	Incted usin priate QA must be ba with the	AXIMUM DAILY Value  1.39  1.39  1.39  1.39  1.39  1.39  1.49	ALUE Units s.u. s.u. MGD °F	VERAGE DAILY	AVERAGE	mply with QA/dressed by 40 ur and one-had ur and one-had DAILY VALUE Units  MGD  °F  °F  ANALYT METH	QC req 0 CFR P alf years Num	ased on data uirements of lart 136. At a s apart. ber of Sample ~1,550 ~1,550 continuous ~360
Outfall number:  PARAMETER  Minimum)  Maximum)  Rate  erature (Winter)  Mar, 2010-2013)  erature (Summer)  iep, 2009-2012)  * For pH please repor	nalysis cond I other appro esting data r	Incted usin opriate QA/must be ba  (from 3/09-  MA/  Va  6  7  137  16  29  and a maximal maxi	AXIMUM DAILY Value  5.8  7.39  6.9  6.9  6.9  6.9  6.9  6.9  6.9	36 method is for standhree samp  (ALUE Units s.u. s.u. MGD °F	VERAGE DAILY Units	AVERAGE	mply with QA/dressed by 40 ur and one-had ur and on	OCFR Palf years Num	ased on data uirements of lart 136. At a s apart.  ber of Sample ~1,550 ~1,550 continuous ~360 ~360  ML/MDL
Outfall number:  PARAMETER  Minimum)  Maximum)  Rate erature (Winter) Mar, 2010-2013) erature (Summer) ep, 2009-2012)  * For pH please repor POLLUTANT	t a minimum	Incted usin opriate QA/must be ba  (from 3/09-  MA/  Va  6  7  133  16  25  and a maximaximaximaximaximaximaximaximaximaxi	AXIMUM DAILY Value  5.8  7.39  6.9  6.4  6.9  6.9  6.9  6.9  6.9  6.	36 method its for stand three samp  (ALUE Units s.u. s.u. MGD  °F  °F	VERAGE DAILY	AVERAGE  DISCHARGE  Number of Sam	mply with QA/dressed by 40 ur and one-had ur and one-had DAILY VALUE Units  MGD  °F  °F  ANALYT METH	OCFR Palf years Num  CO  CICAL OD	ber of Sample ~1,550 ~1,550 continuous ~360
Outfall number:  PARAMETER  Minimum)  Maximum)  Rate  erature (Winter)  Mar, 2010-2013)  erature (Summer)  eep, 2009-2012)  * For pH please repor  POLLUTANT  CHEMICAL OXYGEN	t a minimum  BOD-5  CBOD-5	Incted usin opriate QA/must be ba  (from 3/09-  MA/Va  6  7  133  16  28  and a maximaximaximaximaximaximaximaximaximaxi	AXIMUM DAILY Value  3.8  3.3  7.39  5.4  Simum daily value  MUM DAILY  CHARGE  Units  mg/L	36 method is for stand hree samp  (ALUE Units s.u. s.u. MGD  °F  °F  A  Conc. 2.5	Value  Value  39.88  13.3  VERAGE DAILY  Units  mg/L	AVERAGE  AVERAGE  DISCHARGE  Number of Sam  ~1,550	mply with QA/dressed by 40 ur and one-had ur and on	COC required to the company of the c	ber of Sample  ~1,550  ~1,550  continuous  ~360  ML/MDL  5 mg/L

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

#### WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

9 D	escription of Outfall				
a	Outfall number	003	EQ Basin Overflow		
b	Location	Roanoke		24014	
		(City or town, if applic	able)	(Zip Code)	
		Roanoke		Virginia	
		(County)		(State)	
		37° 15' 58"		79° 54' 32"	
		(Latitude)		(Longitude)	
C.	Distance from s	hore (if applicable)	NA	ft.	
d.	Depth below su	rface (if applicable)	NA	ft.	
e.	Average daily flo	ow rate	0	mgd	
f.	Does this outfal	I have either an intermittent	or		
	periodic dischar	ge?	X Yes	No	(go to A.9.g)
	Number of times	s per year discharge occurs:	Emergency Bypass O	nly (0 - 3 times/year	from 11/09 - 7/13)
	Average duration	n of each discharge:	Varies		
	Average flow pe	er discharge:	13.69 (from 11/09 - 7/1	<b>13)</b> mgd	
	Months in which	discharge occurs:	Varies: Usually late fa	II to early spring	
g.	Is outfall equipp	ed with a diffuser?	Yes	X No	
0. D	escription of Receiv	ing Waters			
a.	Name of receivi	ng water Roanok	e River		
b.	Name of waters	hed (if known)	Upper Roanoke Water	rshed	
	United States S	oil Conservation Service 14-	digit wastershed code (if known	own):	
c.	Name of State N	Management/River Basin (if I	known):		
	United States G	eological Survey 8-digit hydr	ological cataloging unit cod	e (if known):	03010101
				O Flow Evolvation	
d.	Critical low flow	of receiving stream (if applic	eable): From 2013 DEC	a Flow Evaluation	
d.	Critical low flow acute 35		chronic	40 cfs (7Q)	10)

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a.	What levels of	treatment or	o provided?	Chook all th	ot onni.					
a.	What levels of		e provided?							
	Primai	У	-	Secondary						
	Advan	ced	X	Other.	Describe:	Sedimen	tation Tank Equivalent	to Primary	Treat	ment
b.	Indicate the fol	lowing remov	val rates (as	applicable)						
	Design BOD <sub>5</sub> I	emoval <u>or</u> De	esign CBOD	<sub>5</sub> removal			40		_%	
	Design SS ren	noval					25		%	
	Design P remo	ıval					0		%	
	Design N remo	val					0		%	
	Other								%	
C.	What type of d	isinfection is	used for the	e effluent from	n this outfall? I	f disinfection	n varies by season, pleas	se describe.		
	Chlorination									
	If disinfection is	s by chlorina	tion, is dech	lorination use	ed for this outfa	1?	Yes	x	No	
d.	Does the treatr	nent plant ha	ave post aer	ation?			Yes	×	- No	
disci data requ CFR	emeters. Provided the provided	e the indication include information include information include inclu	ted effluen ormation or conducted 6 and other	t testing req combined s using 40 CF appropriate	uired by the p sewer overflow FR Part 136 me QA/QC require	ermitting at vs in this se ethods. In a ements for	must provide effluent to uthority for each outfall ection. All information addition, this data must standard methods for ee samples and must be	through w reported m t comply w analytes no	hich on the control of the control o	effluent is e based on VQC Iressed by 4
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A.

OMB Number 2040-0086

#### WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

D	escription of Outfall.						
a.	Outfall number	010	Influ	ent Pump Station	Bypass		
b.	Location	Roanoke			24014		
		(City or town, if applica	able)		(Zip Co	ode)	<b>公里</b> 在6.00×
		Roanoke			Virgini	ia	
		(County)			(State	e)	
		37° 15' 56"			79° 54		
		(Latitude)			(Longitu	ude)	
c.	Distance from shor	re (if applicable)	le <u>k</u>	NA	ft.		
d.	Depth below surface	ce (if applicable)		NA	ft.		
e.	Average daily flow	rate		0	mgd		
f.	Does this outfall ha	ve either an intermittent o	or				
	periodic discharge?	1	-	X Yes		No	(go to A.9.g)
	Number of times pe	er year discharge occurs:	Eme	rgency Bypass O	nlv		
	Average duration of		Varie		Marie 2		
	Average flow per di		Varie	TOTAL PLANTING		mgd	
	Months in which dis	scharge occurs:	1	es: Dependent up	on wet we		
g.	Is outfall equipped	with a diffuser?		Yes	x	No	
. De	escription of Receiving	Waters					
a.	Name of receiving v	water Roanoke	River				
b.	Name of watershed	l (if known)	Uppe	er Roanoke Water	rshed		
	United States Soil C	Conservation Service 14-d	ligit wast	ershed code (if kno	own):		
c.	Name of State Man	agement/River Basin (if k	nown):				
	United States Geold	ogical Survey 8-digit hydro	ological c	ataloging unit code	e (if knowr	n):	03010101
d.	Critical low flow of r	eceiving stream (if applica	able):	From 2013 DE0	2 Flow Ev	aluation	
	acute 35	cfs (1Q10)		chronic	40	cfs (7Q10	)
	acate 00	015 (10(10)					

a. Wi	Description of Treatment  a. What levels of treatment  Primary  Advanced  b. Indicate the following rer  Design BOD <sub>5</sub> removal of Design SS removal  Design P removal	treatment an		Check all that					
			e provided.	Secondary					
-	A PERMIT			Other.	Describe:	No treatm			
h led					Describe.	No treatif	ient		
D. Inc	dicate the fol	lowing remov	vai rates (as a	applicable)					
De	esign BOD <sub>5</sub> r	emoval <u>or</u> De	esign CBOD <sub>5</sub>	removal			0	%	
De	esign SS rem	noval					0	%	
De	esign P remo	val					0	%	
De	esign N remo	val					0	%	
Oth	her							%	
c. Wh	hat type of di	isinfection is	used for the	effluent from	this outfall? If	disinfection	varies by season, pleas	se describe.	
No									
If d	disinfection is	by chlorinat	tion, is dechlo	orination used	for this outfall	?	Yes	X No	,
d. Do	es the treatr	nent plant ha	ve post aera	tion?			Yes	X No	,
paramete discharg data coll requirem	ers. Provid ged. Do not lected throu nents of 40 of t 136. At a r	e the indical include info gh analysis CFR Part 13	ted effluent ormation on conducted of 6 and other a	testing requi combined se using 40 CFF appropriate (	ired by the pe ewer overflow R Part 136 me QA/QC require	ermitting au is in this se thods. In a ements for	nust provide effluent to athority for each outfall ection. All information addition, this data mus standard methods for ee samples and must b	through whice reported must t comply with to analytes not a	h effluent is t be based on QA/QC ddressed by 4
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FACILITY NAME AND PERMIT NUMBER:

Western Virginia Water Authority Water Pollution Control

Plant; VA0025020

Form Approved 1/14/99

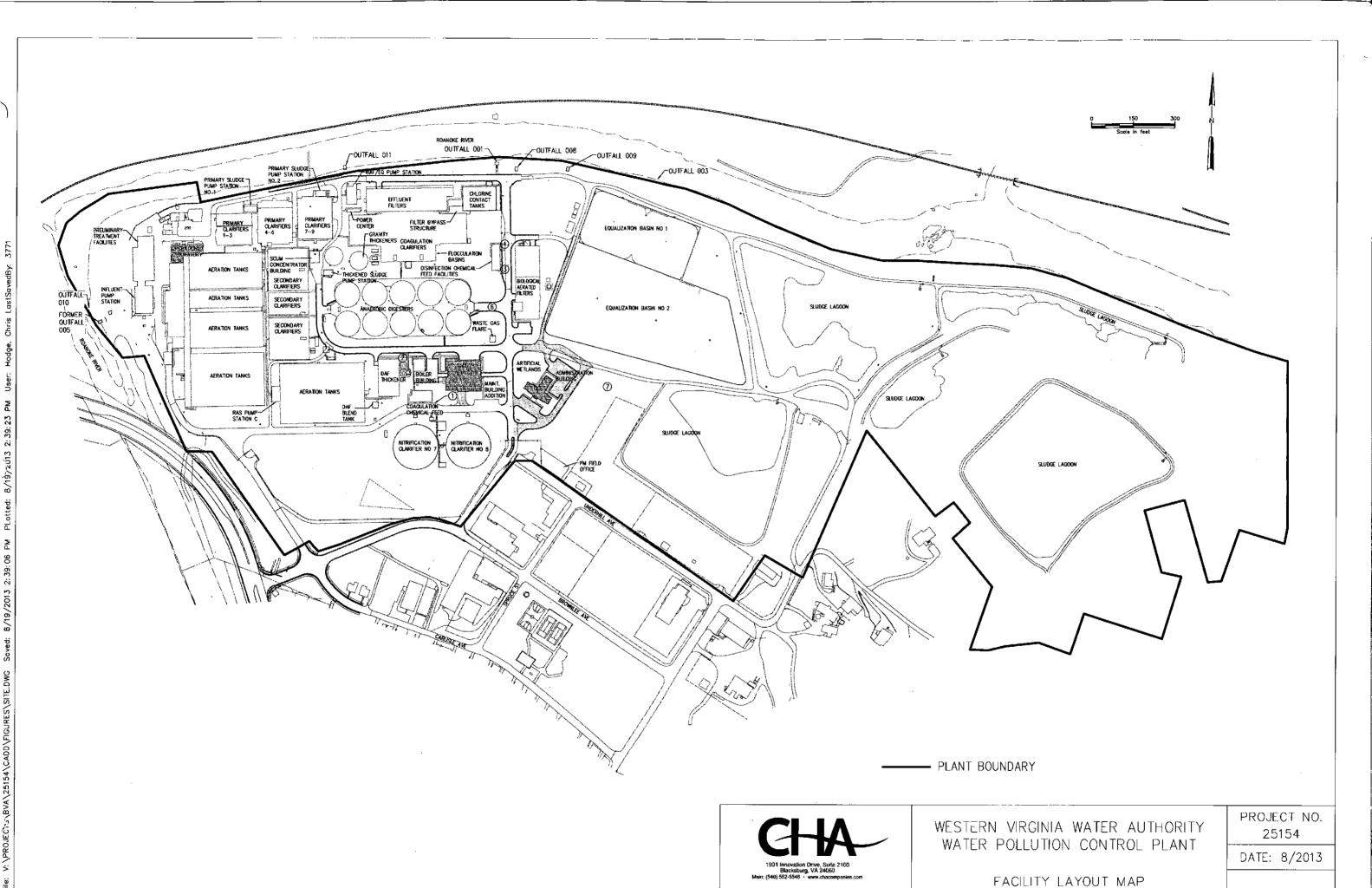
OMB Number 2040-0086

## BASIC APPLICATION INFORMATION

	LTO 0.1 MGD (100,000 gallons per day).  licants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).
	nflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.
	3,500,000 gpd
	briefly explain any steps underway or planned to minimize inflow and infiltration.
_	consent order with DEQ WCRO is in effect and defines specific actions.
-	
	opographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property
ŀ	oundaries. This map must show the outline of the facility and the following information. ( You may submit more than one map if one
r	nap does not show the entire area.) See Attached Site Location Map and Facility Layout Map in Attachment B.2.
8	
b	
	treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
c	
C	
	works, and 2) listed in public record or otherwise known to the applicant.
6	
f	
	rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or
	disposed.
. F	rocess Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all
t	ackup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g.,
6	hlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily
1	ow rates between treatment units. Include a brief narrative description of the diagram.
,	See Attached Process Flow Diagram and Process Description in Attachment B.3  Departion/Maintenance Performed by Contractor(s).
-	re any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?
	Yes X No
If p	yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional ages if necessary).
	ame:
IN	lailing Address:
Т	elephone Number:
	esponsibilities of Contractor:
. 5	cheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or
u	ncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the
tr	eatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B
fo	er each. (If none, go to question B.6.)
a	( 5 ) The implementation contidues.
	Outfall 001
b	Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

# ATTACHMENT B.2 SITE LOCATION MAP AND FACILITY LAYOUT MAP





## **ATTACHMENT B.3**

DESCRIPTION OF WASTEWATER TREATMENT FACILITIES



#### WESTERN VIRGINIA WATER AUTHORITY VPDES PERMIT VA0025020 FORM 2A ATTACHMENT B.3 Description of Wastewater Treatment Facilities

#### TREATMENT PROCESS OVERVIEW

Preliminary wastewater treatment facilities consist of screening and grit removal. Primary treatment facilities consist of nine (9) rectangular primary settling tanks with chain and flight sludge and scum collection and a sludge and scum pumping station. Secondary treatment facilities include sixteen (16) aeration basins and 18 secondary clarifiers, and return sludge and waste sludge pumping stations. The tertiary treatment system includes a rapid mix tank for chemical addition, four (4) flocculation basins, four (4) coagulation settling basins, and ten (10) effluent filters. The disinfection facilities include a liquid chlorination system, chlorine contact tanks, post aeration, and dechlorination. The plant discharges treated effluent to the Roanoke River under VPDES Permit No. VA 0025020.

#### PRELIMINARY TREATMENT

#### Screens and Grit Removal

Flow from the Roanoke River Interceptor and the Tinker Creek Interceptor flow into the influent pump station after the addition of ferric chloride. It is then channeled into the screenings channels and divided between three (3) grit chambers (No. 1-3). High wet weather flows in excess of influent pump station capacity maybe discharged to the EQ basin for storage. Flow beyond EQ basin storage capacity is discharged through Outfall 003. Discharge through Outfall 010 (influent pump station bypass) would only occur during a complete plant shut down; this is expected to occur only during a catastrophic flood event and would be implemented to prevent damage to property and danger to life in the collection system.

#### PRIMARY TREATMENT

There are nine (9) rectangular primary clarifier basins; flow from each of the three grit chambers can be channeled to primary clarifiers Nos. 1-3, Nos. 4-6 or Nos. 7-9. Primary clarifiers separate the heavier organic suspended and inert solids from the flow stream. Chain and flight-type collector mechanisms convey settled organic matter to the sludge hopper for removal.

#### SECONDARY TREATMENT

Secondary treatment facilities include activated sludge aeration basins, clarifiers, and return activated sludge/waste activated sludge (RAS/WAS) pumping systems.

#### Activated Sludge:

The existing biological treatment process is a single-stage activated sludge system. The process is primarily for the purpose of carbonaceous (BOD) removal. It is then distributed between sixteen (16) single-pass, plug-flow activated sludge basins with Sanitaire® disk aeration diffusers for dissolved organics (BOD) removal. For the most part, primary effluent from Primary Clarifiers 1-3 flows to Aeration Basins 1-6; primary effluent from Primary Clarifiers 4-6 flows to Aeration Basins 7-10; and primary effluent from Primary Clarifiers 7-9 flows to Aeration Basins 11-16. There is a pipe connection that attempts to distribute these flows, but the flow isolation



described above is largely maintained. In addition, Aeration Basins 5 and 6 generally send effluent to Final Stage Clarifiers 5 and 6, as pipe interconnections do not equally mix and distribute flow to the clarifiers. Return sludge is introduced at the head of the basins from a main header through valves with individual flow meters.

#### Secondary Clarifiers:

There are sixteen (16) square secondary clarifiers with circular collection mechanisms and two (2) circular secondary clarifiers. Mixed liquor from the activated sludge basins is distributed to the clarifiers from a central channel with sluice gates. Return sludge from Clarifiers 11-16 flows through a telescoping valve into a suction line common to groups of clarifiers while the return sludge from the remaining clarifiers is pumped to the aeration basins. While the system is designed for flexibility for transferring mixed liquor and return sludge to amongst several aeration basins and clarifiers, it is typically operated a three train system. Return sludge from Clarifiers 1-6 is pumped separately to Aeration Basins 1-6; return sludge from Clarifiers 7-10 are pumped to Aeration Basins 1-6; return sludge from Clarifiers 11-16 is conveyed to Aeration Basins 11-16, and return sludge from Clarifiers 17 and 18 is pumped to Aeration Basins 7-10. Secondary clarifiers 1-10 have individual return sludge pumps located at each tank. The return sludge pumps for secondary clarifiers 11-16 are located in the Train C pump house and return sludge pumps for secondary clarifiers 17 and 18 are located at the RAS Pump Station B.

#### TERTIARY TREATMENT

Tertiary treatment consists of chemical addition, flocculation, coagulation/settling, filtration, and disinfection. Each of these is discussed below.

#### Flocculation/Coagulation:

Clarified wastewater from the secondary clarifiers normally flows to a pretreatment system prior to effluent filtration. The pretreatment system consists of two rapid mix tanks (where ferric chloride and polymer are added to precipitate additional phosphorus), four flocculation tanks with vertical mixers and four square coagulation settling basins. The coagulation basins have circular collection mechanisms. Sludge is collected through telescoping valves and can be pumped to either the gravity thickeners or dissolved air flotation thickeners (DAF).

#### Effluent Filters:

There are ten (10) mono-media effluent sand filters. All of the filters have an air scour backwash system.

#### Disinfection:

Tertiary effluent is disinfected with liquid sodium hypochlorite in two parallel chlorine contact tanks. The disinfected effluent undergoes diffused aeration and is then dechlorinated using sodium bisulfite prior to discharger to the Roanoke River.



#### SOLIDS HANDLING

Solids produced by wastewater treatment processes include:

- Screenings/grit
- Primary sludge and scum
- Waste activated sludge
- Coagulation sludge and scum
- BAF and effluent filter backwash solids

In general, solids removed from the wastewater treatment processes are first thickened, then stabilized, and then stored in sludge lagoons prior to being land applied. Specific solids handling facilities are described below and are shown in the Process Flow Diagram-Solids Handling.

#### Thickening:

Gravity Thickening-Primary sludge collected in primary clarifier sludge hoppers flows to the primary sludge pumping stations wetwell/pump suction. Eight primary sludge pumps are available to convey these solids to two (2) gravity thickeners. Thickeners can be operated in a batch mode with solids pumped individually to either thickener, or continuously in parallel to both thickeners. Coagulated sludge can also be thickened in the gravity thickeners along with primary sludge. Thickened sludge is collected and scraped to the sludge hopper, then pumped to the anaerobic digesters. Thickened sludge pumps are located in a building adjacent to the gravity thickeners. Thickener overflow is returned to the Tinker Creek Interceptor and back to the head of the plant.

Dissolved Air Floatation Thickening-A portion of the solids removed from secondary clarifiers as waste activated sludge are pumped from the return sludge header to the blend tank and then to the DAFs. Coagulated sludge can be discharged to, and thickened in, the DAFs. Thickened sludge and settled solids are removed from the DAFs and pumped to the anaerobic digesters. Subnatant can be used to supply water to the AEP pumps or is returned to the Tinker Creek Interceptor and to the head of the plant.

#### Stabilization:

Thickened solids are stabilized in the anaerobic digestion process to produce a Class "B" biosolids in accordance with 40 CFR Part 503 regulations. There are seven (7) primary sludge digesters, three (3) secondary digesters, and associated pumps, piping, mixing, and heating equipment.

#### Storage and Disposal:

Digested biosolids are removed from the secondary digesters and pumped to one of five (5) storage lagoons. When conditions are suitable, solids are removed from the lagoons and hauled to and applied on farmland permitted for beneficial reuse. The Western Virginia Water Authority contracts services for removing, hauling and applying biosolids to farmland with private contractors.



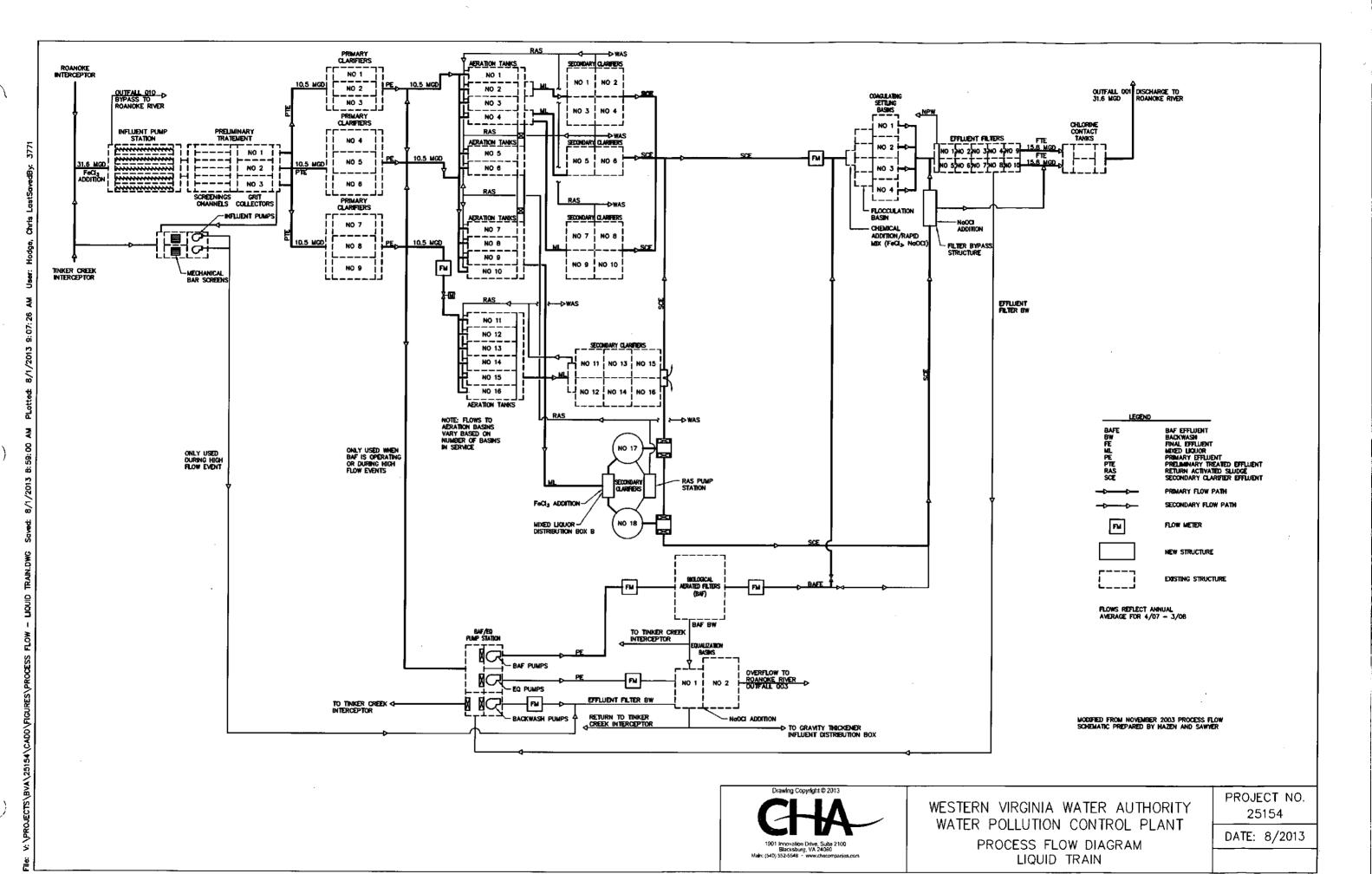
# MAXIMUM WET WEATHER PEAK FLOW CAPACITY IMPROVEMENTS

Currently wet weather flows in excess of the WPCP's current treatment capacity are conveyed to two large equalization basins. This wastewater is held until influent flows decrease at which time the wastewater held in the equalization basin is pumped to the WPCP for treatment. During periods of very high wet weather flows, wastewater in excess of the equalization basin capacity is discharged through Outfall 003. The level of treatment for the Outfall 003 discharges includes sedimentation equal to primary clarification and disinfection using chlorination.

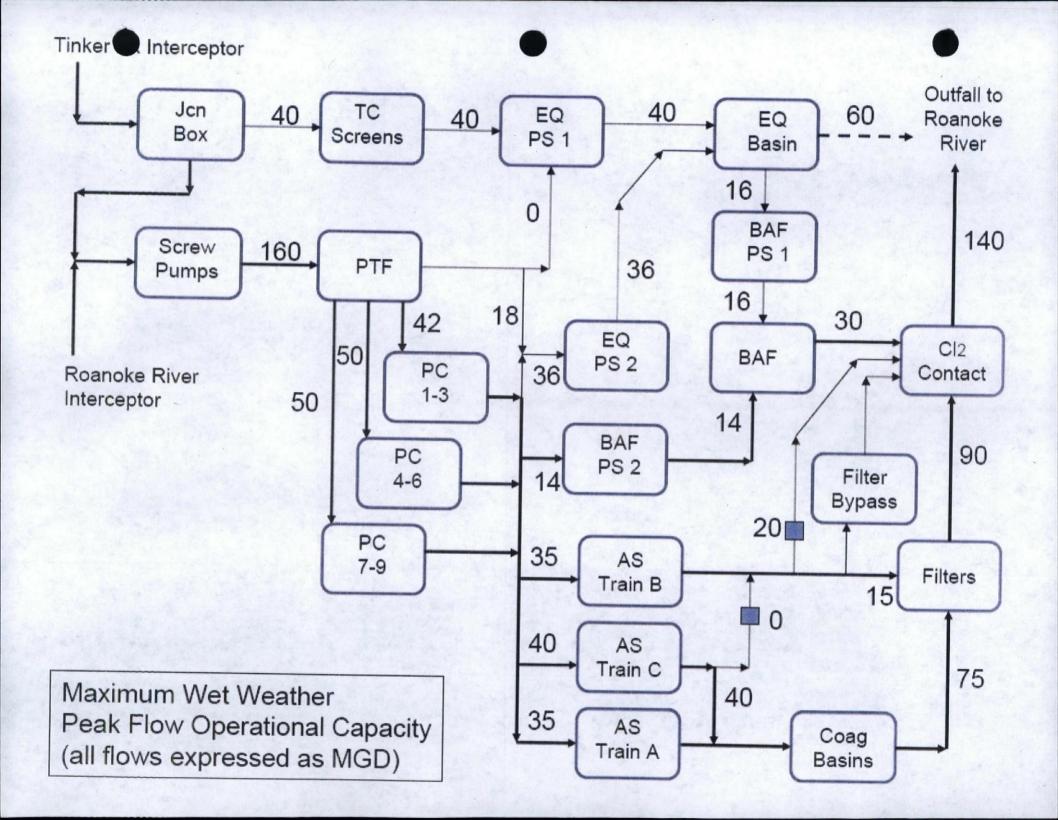
The Authority is currently in the process of making significant improvements to the chlorine contact and the BAF systems to provide additional treatment capacity for peak wet weather flow events. These improvements represent a significant investment by the Authority to provide high levels of treatment during wet weather flow events.

The line diagram depicting the WPCP components and capacities with the planned system is attached. As depicted, the biological aerated filter (BAF) unit will provide biological treatment for an estimated 30 MGD, increasing the WPCP treatment capacity to approximately 140 MGD. The use of the improved BAF along with the expansion of the chorine contact basin will increase the WPCP hydraulic capacity to approximately 200 MGD.





/ \



c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

Wet weather peak flow treatment improvements (underway), chlorination contact improvements (underway),

digester improvements (not scheduled), future expansion to 62 MGD tier (not scheduled).

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

Implementation Stage	Schedule MM/DD/YYYY	Actual Completion MM/DD/YYYY	
- Begin construction	, ,		
- End construction			
- Begin discharge			
- Attain operational level			
	ces concerning other Federal/State requirement	21 100	No
Describe briefly:	or peak flow treatment and chlorination cor	ntact improvements	

#### B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: 001 (Feb 09-Jun 13)

\*Laboratory Reporting Limit. MDL is included in the lab reports.

\*\*Dissolved Oxygen values based on Minimum Monthly Values report on DMRs

POLLUTANT			UM DAILY CHARGE	The second second second	N. S. C.		E DAILY [		RGE	ANALYTICAL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	METHOD	ML/MDL *
CONVENTIONAL AND NONCON	VENTIO	NAL C	OMPOUN	DS.							
AMMONIA (as N)	<0.1	mg/L	<52.0	kg/d	<0.1	mg/L	<15.1	kg/d	3	SM 4500NH3,F	0.1 mg/L
CHLORINE (TOTAL RESIDUAL, TRC)	<0.1	mg/L	<52.0	kg/d	<0.1	mg/L	<15.1	kg/d	~1,550	EPA 330.1	0.1 mg/L
DISSOLVED OXYGEN **	8.8	mg/L	4,580	kg/d	6	mg/L	9,035	kg/d	~1,550	EPA 360.1	1.0 mg/L
TOTAL KJELDAHL NITROGEN (TKN)	<1.0	mg/L	<520	kg/d	<1	mg/L	<151	kg/d	~1,550	SM 4500N,C	1 mg/L
NITRATE PLUS NITRITE NITROGEN	12.1	mg/L		kg/d	10.1	mg/L		kg/d	3	EPA 300.0	0.1 mg/L
OIL and GREASE	<5	mg/L	<2,610	kg/d	<5	mg/L	<755	kg/d	3	SM 5520B	5 mg/L
PHOSPHORUS (Total)	0.16	mg/L	83.2	kg/d	<0.06	mg/L	<9.06	kg/d	~1,550	EPA 365.3	0.05 mg/L
TOTAL DISSOLVED SOLIDS (TDS)	359	mg/L	187,000	kg/d	351		53,000	kg/d	3	EPA 160.1	1 mg/L
THER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

END OF PART B.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant;

OMB Number 2040-0086

#### BASIC APPLICATION INFORMATION

# PART C. CERTIFICATION All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted. Indicate which parts of Form 2A you have completed and are submitting: X Basic Application Information packet Y Part D (Expanded Effluent Testing Data) X Part E (Toxicity Testing: Biomonitoring Data)

Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

Part G (Combined Sewer Systems)

#### ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

I certifiy under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title

Signature
Telephone number

Date signed

Michael T. McEvoy, Executive Director, Wastewater Services

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

#### SUPPLEMENTAL APPLICATION INFORMATION

#### PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

POLLUTANT			UM DAILY HARGE		A	VERAGI	E DAILY D	ISCHAF	RGE	ANALYTICAL	
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	METHOD	ML/MDL*
METALS (TOTAL RECOVERABLE),	CYANIDE	, PHEN	NOLS, AND	HAR	DNESS.						
ANTIMONY	<1	μg/L	<520	g/d	<1	μg/L	<151	g/d	3	EPA 200.7	1 μg/L
ARSENIC	<1	µg/L	<520	g/d	<1	μg/L	<151	g/d	3	EPA 200.7	1 μg/L
BERYLLIUM	<0.1	μg/L	<52	g/d	<0.1	μg/L	<15.1	g/d	3	EPA 200.7	0.1 μg/L
CADMIUM	<0.05	μg/L	<26	g/d	<0.05	μg/L	<7.5	g/d	3	EPA 200.7	0.05 μg/L
CHROMIUM	<1	μg/L	<520	g/d	<1	μg/L	<151	g/d	3	EPA 200.7	1 μg/L
COPPER 0.5	<0.5	μg/L	<260	g/d	<0.5	μg/L	<75	g/d	3	EPA 200.7	0.5 μg/L
LEAD	0.34	μg/L	180	g/d	<0.15	μg/L	<22.6	g/d	3	EPA 200.7	0.1 μg/L
MERCURY	<0.1	μg/L	<52	g/d	<0.1	μg/L	<15.1	g/d	3	EPA 245.1	0.1 μg/L
NICKEL 5	1.66	μg/L	863	g/d	<0.72	μg/L	<109	g/d	3	EPA 200.7	0.5 μg/L
SELENIUM	<0.5	μg/L	<26	g/d	<0.05	μg/L	<7.5	g/d	3	EPA 200.7	0.5 μg/L
SILVER 6	<0.1	μg/L	<52	g/d	<0.1	μg/L	<15.1	g/d	3	EPA 200.7	0.1 μg/L
THALLIUM	<0.1	μg/L	<52	g/d	<0.1	μg/L	<15.1	g/d	3	EPA 200.7	0.1 μg/L
ZINC 10	21.6	μg/L	11,200	g/d	<7.5	μg/L	1,130	g/d	3	EPA 200.7	1 μg/L
CYANIDE	<0.05	μg/L	<26	g/d	<0.05	μg/L	<7.5	g/d	4	EPA 335.4	0.05 μg/L
TOTAL PHENOLIC COMPOUNDS	<0.05	µg/L	<26	g/d	<0.05	μg/L	<7.5	g/d	4	EPA 420.1	0.05 μg/L
HARDNESS (AS CaCO <sub>3</sub> )	192	mg/L	99,000	kg/d	100		29,000	ka/d	3	EPA 130.2	1 mg/L

Form Approved 1/14/99

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

POLLUTANT	MAXIMUM DAILY DISCHARGE					a waters of the United States.)  AVERAGE DAILY DISCHARGE					
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
VOLATILE ORGANIC COMPOUNDS.								1			
ACROLEIN	<10	μg/L	<5,200	g/d	<10	μg/L	<1,500	g/d	4	EPA 624	10 μg/l
ACRYLONITRILE	<10	μg/L	<5,200	g/d	<10	μg/L	<1,500	g/d	4	EPA 624	10 µg/l
BENZENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
BROMOFORM	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
CARBON TETRACHLORIDE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
CHLOROBENZENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
CHLORODIBROMO-METHANE	14.3	μg/L	7,440	g/d	6.6	μg/L	996	g/d	4	EPA 624	1 µg/L
CHLOROETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 110/1
2-CHLORO-ETHYLVINYL ETHER	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L 5 μg/L
CHLOROFORM	17.0	μg/L	8,840	g/d	14.0	μg/L	2,110	g/d	4	EPA 624	1 μg/L
DICHLOROBROMO-METHANE	2.7	μg/L	1,400	g/d	1.2	μg/L	180	g/d	4	EPA 624	1 μg/L
1,1-DICHLOROETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,2-DICHLOROETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
TRANS-1,2-DICHLORO-ETHYLENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,1-DICHLOROETHYLENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,2-DICHLOROPROPANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,3-DICHLORO-PROPYLENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
ETHYLBENZENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 µg/L
METHYL BROMIDE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
METHYL CHLORIDE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
METHYLENE CHLORIDE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,1,2,2-TETRACHLORO-ETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
TETRACHLORO-ETHYLENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 µg/L
FOLUENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Outfall number: 001 (Complete o		e for each outfall discharging effluent to waters of the United States.)  MAXIMUM DAILY DISCHARGE AVERAGE DAILY DISCHARGE					RGE				
	Conc.	Units	Units Mass		Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL *
1,1,1-TRICHLOROETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
1,1,2-TRICHLOROETHANE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
TRICHLORETHYLENE	<1	μg/L	<520	g/d	<1	μg/L	<150	g/d	4	EPA 624	1 μg/L
VINYL CHLORIDE	<1	μg/L	<520	g/d	<1	μg/L	<150		4	EPA 624	1 μg/L
Use this space (or a separate sheet ACID-EXTRACTABLE COMPO		formatio	n on other	volatile	organic	compour	ids reques	ted by t	the permit	writer.	
P-CHLORO-M-CRESOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	11.6 µg/L
2-CHLOROPHENOL	<11.6	μg/L					<1,750		3	EPA 625	13.4 µg/L
2,4-DIMETHYLPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
4,6-DINITRO-O-CRESOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
2,4-DINITROPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
2-NITROPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
4-NITROPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
PENTACHLOROPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
PHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
2,4,6-TRICHLOROPHENOL	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
Use this space (or a separate sheet)  BASE-NEUTRAL COMPOUND:		formation	on other	acid-ex	tractable	compou	nds reques	sted by	the permit	writer.	
ACENAPHTHENE	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
ACENAPHTHYLENE	<11.6	μg/L	<6,000	1	1	N PS		100	3	EPA 625	13.4 µg/L
ANTHRACENE	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
BENZIDINE	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
BENZO(A)ANTHRACENE			<6,000					PAN.	3	EPA 625	13.4 µg/L
BENZO(A)PYRENE			<6,000					The s	3	EPA 625	13.4 µg/L

Westerm Virginia Water Authority Water Pollution Control Plant; VA0025020

Outfall number: 001 (Complete once for exportant)  POLLUTANT	each outfall discharging effluent to wa MAXIMUM DAILY DISCHARGE				NAME OF TAXABLE PARTY.		States.) E DAILY D				
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/MDL
3,4 BENZO-FLUORANTHENE	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
BENZO(GHI)PERYLENE	<11.6	μg/L	<6,000	g/d		100	<1,750	g/d	3	EPA 625	13.4 µg/L
BENZO(K)FLUORANTHENE		μg/L		g/d	E STATE		<1,750	0.102	3	EPA 625	13.4 µg/L
BIS (2-CHLOROETHOXY) METHANE	<11.6		<6,000	g/d			100		3	EPA 625	13.4 µg/L
BIS (2-CHLOROETHYL)-ETHER	<11.6	μg/L	<6,000	g/d		1	<1,750	g/d	3	EPA 625	13.4 µg/L
BIS (2-CHLOROISO-PROPYL) ETHER	<11.6	μg/L	<6,000	g/d		19.32	<1,750	5 18 DE	3	EPA 625	13.4 µg/L
BIS (2-ETHYLHEXYL) PHTHALATE		μg/L	<6,000	1000	7		<1,750	1957	3	EPA 625	13.4 µg/L
4-BROMOPHENYL PHENYL ETHER	<11.6		<6,000	g/d		C The			3	EPA 625	13.4 µg/L
BUTYL BENZYL PHTHALATE	<11.6		<6,000	AL IN	<11.6	1977			3	EPA 625	13.4 µg/L
2-CHLORONAPHTHALENE	<11.6		<6,000		7				3	EPA 625	13.4 μg/L
4-CHLORPHENYL PHENYL ETHER	<11.6		<6,000		<11.6			g/d	3	EPA 625	13.4 µg/L
CHRYSENE	<11.6	The second	<6,000	1871	<11.6	1000		g/d	3	EPA 625	13.4 µg/L
DI-N-BUTYL PHTHALATE	<11.6	- 1,38	<6,000		Desire as	40	<1,750	g/d	3	EPA 625	13.4 µg/L
DI-N-OCTYL PHTHALATE	<11.6		<6,000		<11.6	E THIN	The state of	g/d	3	EPA 625	13.4 µg/L
DIBENZO(A,H) ATHRACENE	<11.6		<6,000				= 7 \ - 10	g/d	3	EPA 625	13.4 µg/L
1,2-DICHLOROBENZENE	<11.6	T GEVA	<6,000	1	<11.6		<1,750	g/d	3	EPA 625	13.4 µg/L
1,3-DICHLOROBENZENE	<11.6	2000	<6,000		<11.6	N. P. S.		g/d	3	EPA 625	13.4 μg/L
1,4-DICHLOROBENZENE		1990	<6,000		716 16	N. S. C.		1000	3		13.4 µg/L
3,3-DICHLOROBENZIDINE							CHANNET		- Thirty		No. of Science of Co.
DIETHYL PHTHALATE		μg/L	Marks.		To Hell	- New York	<1,750		3		13.4 µg/L
DIMETHYL PHTHALATE		μg/L		-	<11.6			g/d	3		13.4 µg/L
2,4-DINITROTOLUENE	N SWIII	μg/L	BLACE OF		(N. 72)		<1,750	g/d	3	EPA 625	13.4 µg/L
2,6-DINITROTOLUENE		μg/L					<1,750		3	EPA 625	13.4 µg/L
	<11.6	μg/L	<6,000	g/d	<11.6	µg/L	<1,750	g/d	3	EPA 625	13.4 µg/L
1,2-DIPHENYLHYDRAZINE	<11.6	μg/L	<6,000	g/d	<11.6	μg/L	<1,750	g/d	3	EPA 625	13.4 µg/L

Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT MAXIMUM DAILY AVERAGE DAILY DISCHARGE DISCHARGE ANALYTICAL ML/MDL Number METHOD Units Samples Conc. Mass Units Conc. Units Mass Units FLUORANTHENE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L **FLUORENE** <11.6 µg/L <6.000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L HEXACHLOROBENZENE <11.6 µg/L <6,000 3 g/d <11.6 µg/L <1,750 **EPA 625** g/d 13.4 µg/L **HEXACHLOROBUTADIENE** <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 **EPA 625** 13.4 µg/L g/d HEXACHLOROCYCLO-PENTADIENE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L **HEXACHLOROETHANE** g/d <11.6 µg/L <1,750 <11.6 µg/L <6,000 q/d 3 **EPA 625** 13.4 µg/L INDENO(1,2,3-CD)PYRENE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 g/d 3 **EPA 625** 13.4 µg/L **ISOPHORONE** <11.6 µg/L <6,000 q/d <11.6 µg/L 3 <1.750 a/d **EPA 625** 13.4 µg/L NAPHTHALENE <6,000 <11.6 µg/L g/d <11.6 µg/L <1,750 g/d 3 **EPA 625** 13.4 µg/L **NITROBENZENE** <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 g/d 3 **EPA 625** 13.4 µg/L N-NITROSODI-N-PROPYLAMINE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L N-NITROSODI-PHENYLAMINE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L PHENANTHRENE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 3 g/d **EPA 625** 13.4 µg/L **PYRENE** <11.6 µg/L <6,000 g/d <11.6 µg/L g/d <1,750 3 **EPA 625** 13.4 µg/L 1,2,4-TRICHLOROBENZENE <11.6 µg/L <6,000 g/d <11.6 µg/L <1,750 g/d 3 **EPA 625** 13.4 µg/L Use this space (or a separate sheet) to provide information on other base-neutral compounds requested by the permit writer. Use this space (or a separate sheet) to provide information on other pollutants (e.g., pesticides) requested by the permit writer. END OF PART D.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE FACILITY NAME AND PERMIT NUMBER:

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

#### SUPPLEMENTAL APPLICATION INFORMATION

#### PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combinded sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reducation evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no b	piomonitorng data is required, do not comple		oplication Overview for directions on v	
E.1.	Required Tests.			
	Indicate the number of wh		conducted in the past four and one-h	alf years.
E.2.	Individual Test Data. Complete the follocolumn per test (where each species cons	wing chart <u>for each whole</u> stitutes a test). Copy this	effluent toxicity test conducted in the page if more than three tests are bei	last four and on-half years. Allow one ng reported.
		Test number:	Test number:	Test number:
	a. Test information. See Atta	achment E.4		
Test:	species & test method number			
Age a	at initiation of test			
Outfa	Il number			
Dates	s sample collected			
Date	test started			
Durat	ion			
	b. Give toxicity test methods followed	i.		
Manu	al title			
Editio	n number and year of publication			
Page	number(s)			
	c. Give the sample collection method	l(s) used. For multiple	grab samples, indicate the numb	per of grab samples used.
24-H	our composite			
Grab		-14 (049 )		
	d Indicate where the sample was ta	ken in relation to disinf	fection. (Check all that apply for e	each)
Befor	e disinfection			
after	disinfection			
After	dechlorination			
	A STATE OF THE PART OF THE PAR		Of the last of the	

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 Western Virginia Water Authority Water Pollution Control Plant; VA0025020 OMB Number 2040-0086 Test number: Test number: Test number: e. Describe the point in the treatment process at which the sample was collected. Sample was collected: f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both. Chronic toxicity Acute toxicity g. Provide the type of test performed. Static Static-renewal Flow-through h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source. Laboratory water Receiving water i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used. Fresh water Salt Water j. Give the percentage effluent used for all concentrations in the test series k. Parameters measured during the test. (State whether parameter meets test methods specifications) pH Salinity Temperature Ammonia Dissolved oxygen I. Test Results Acute:

%

%

%

Percent survival in

Control percent survival

Other (describe)

100% effluent

LC50

95% C.I.

%

%

%

%

%

%

Chron			OMB Number	2040-0086
	IC .			
	NOEC	%	%	%
	IC <sub>25</sub>	%	%	%
	Control percent survival	%	%	%
	Other (describe)			
	m. Quality Control/Quality Assurance	2. 医胸膜管理 5. 5		
ls refe	rence toxicant data available?			
within	eference toxicant test acceptable bounds?			
toxica	date was reference nt test run DD/YYYY)?			
Other	(describe)			
	Summary of Submitted Biomonitorin information, or information regarding the dates the information was submitted to Date submitted:  Summary of results: (see instructions)	ne cause of toxicity, within the permitting authority and a	past four and one-half years,	j test , provide the
	See Attachment E.4			
		END OF PART E.		

#### ATTACHMENT E.4

SUMMARY OF SUBMITTED BIOMONITORING TEST INFORMATION OUTFALL 001



#### Western Virginia Water Authority Water Pollution Control Plant VA0025020

# E.4. Summary of Submitted Biomonitoring Test Information Outfall 001

Event	Dates	Vertebrate	Invertebrate	LC <sub>50</sub> (%)	NOEC (%)	Survival in 1009
Quarterly	2/3/09 - 2/5/09	X		> 100		100%
additionly	2/3/09 - 2/5/09		X	> 100		100%
	2/5/09 - 2/9/09	X		> 100	100	100%
	2/5/09 - 2/8/09	EM AS	X	> 100	100	100%
First Annual	2/16/10 - 2/22/10		X	> 100	48	100%
	2/18/10 - 2/20/10	X		>100		100%
First Annual (follow-up)	3/8/10 - 3/15/10		X	> 100	49	100%
First Annual	5/20/10 -5/22/10	X		> 100		100%
(follow-up)	5/17/10 -5/23/10		X	> 100	100	100%
Second Annual	6/21/11 -6/23/11	X		> 100		100%
	6/21/11 -6/27/11	Mary Land	Χ	> 100	100	90%
Third Annual	5/22/12 -5/24/12	X		> 100		100%
	5/22/12 -5/28/12	THE PARTY	X	> 100	100	90%
Fourth Annual	4/30/13-5/7/13	X		> 100		100%
	4/30/13-5/6/13		X	>100	100	100%
Permit App. Test 1	5/29/13-6/5/13	X		>100	100	100%
Permit App. Test 2	6/25/13-7/2/13	X		>100	100	100%
Permit App. Test 3	7/30/13-8/6/13	Х		>100	100	100%
Additional Test 1	8/20/13 - 8/26/13		Х	>100	100	100%
Additional Test 2	9/9/13 – 9/15/13		X	>100	100*	100%

<sup>\*</sup>See the attached copy of the email from Deborah L. DeBiasi, Virginia DEQ.



Western Virginia Water Authority Water Pollution Control Plant;

VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

	TE INDUSTRIAL	L USER DISCHARGES AND RCRA/CERCLA WASTES
		g discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Pa
SEN	ERAL INFORMAT	TION:
JLIN	ERAL INFORMA	IION:
.1.	Pretreatment Prog	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
.2.		nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
		non-categorical SIUs. 19
	b. Number of 0	CIUs. 22
		TRIAL USER INFORMATION:
		mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and quested for each SIU.
.3.	Significant Industri pages as necessary	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Accellent Cardiology
	Mailing Address:	200 South Yorkshire Street
		Salem, VA 24153
		Saleting VY 2 1 100
.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
4.		
	Manufacturer of mi	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Manufacturer of mi	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Manufacturer of mi	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Manufacturer of mi	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s discharge.  Principal product(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices
	Manufacturer of mi	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
=.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices
=.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
·.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd)	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons of and whether the discharge is continuous or intermittent.
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
·.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 1,851	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons of and whether the discharge is continuous or intermittent.  gpd (continuous or _Xintermittent)
·.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 1,851  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons of and whether the discharge is continuous or intermittent.
·.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 1,851  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
÷.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 1,851  b. Non-process system in ga 2,080	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons (1) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)
÷.5.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,851  b. Non-process system in ga 2,080  Pretreatment Stand	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _X intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
·.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 1,851  b. Non-process system in ga 2,080  Pretreatment Standa. Local limits	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _X intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:  _X_Yes No
F.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 1,851  b. Non-process system in ga 2,080  Pretreatment Standa. Local limits	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _X intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_Xcontinuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
.6.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,851  b. Non-process system in ga 2,080  Pretreatment Standa. Local limits b. Categorical	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious Metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _X_ intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd ( continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:  Yes No

100000	LITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Vest	ern Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
.8.	Problems at the Treatment Works Attributed to Waste Discharged by th upsets, interference) at the treatment works in the past three years?	le SIU. Has the SIU caused or contributed to any problems (e.
	Yes X No If yes, describe each episode.	
CR	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICA	TED PIPELINE:
	THE RESULT OF PERSON	TED III CEINC.
.9.	RCRA Waste. Does the treatment works receive or has it in the past three y	years received RCRA hazardous waste by truck, rail, or dedica
	Yes X No (go to F.12.)	
	res No (go to F. 12.)	
.10.	Waste Transport. Method by which RCRA waste is received (check all that	apply):
	Truck Rail Dedicated Pipe	
.11.	Waste Description. Give EPA hazardous waste number and amount (volum	me or mass, specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
ER	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRE	CTIVE ACTION
VAC		CTIVE ACTION
VAS	TEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	CTIVE ACTION
	TEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
	Remediation Waste. Does the treatment works currently (or has it been not	
	Remediation Waste. Does the treatment works currently (or has it been not Yes (complete F.13 through F.15.)  X No	tified that it will) receive waste from remedial activities?
	Remediation Waste. Does the treatment works currently (or has it been not	tified that it will) receive waste from remedial activities?
.12.	Remediation Waste. Does the treatment works currently (or has it been notYes (complete F.13 through F.15.)XNo  Provide a list of sites and the requested information (F.13 - F.15.) for each complete F.13 through F.15.	tified that it will) receive waste from remedial activities?
.12.	Remediation Waste. Does the treatment works currently (or has it been not Yes (complete F.13 through F.15.)  X No	tified that it will) receive waste from remedial activities?
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F.12.	Remediation Waste. Does the treatment works currently (or has it been not yes (complete F.13 through F.15.)    X	tified that it will) receive waste from remedial activities?  urrent and future site.  CRA/or other remedial waste originates (or is expected to ed to received). Include data on volume and concentration, if the works?

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

GEN	IERAL INFORMA	TION:
.1.	Pretreatment Prog	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
.2.	Number of Significa industrial users that	int Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of i	non-categorical SIUs. 19
	b. Number of 0	CIUs. 22
SIGI	NIFICANT INDUS	TRIAL USER INFORMATION:
Supp	ly the following infor	mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and quested for each SIU.
F.3.	Significant Industr pages as necessary	rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Accellent Cardiology
	Mailing Address:	235 South Yorkshire Street
		Salem, VA 24153
- 4	Industrial Process	
F.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing
		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Manufacturer of m	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.4. F.5.	Manufacturer of m	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Manufacturer of m  Principal Product(s discharge.	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s discharge.  Principal product(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices
F.5.	Principal Product(s): Principal product(s): Raw material(s): Flow Rate. a. Process was per day (gpo	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons of and whether the discharge is continuous or intermittent.
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-,5.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 750  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous orXintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
-,5.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 750  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)
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F.5.	Principal Product(s):  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 750 b. Non-process system in ga 920  Pretreatment Standa. Local limits	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  icrotube, fine wire, and machined parts,metal finishing  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Microtubing and fine wire for medical devices  Precious metals  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)
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			Form Approved 1/14/99
	n Virginia Water Authority Water Pollution Control Plant; V		OMB Number 2040-0086
.8.	Problems at the Treatment Works Attributed to Waste Disc upsets, interference) at the treatment works in the past three years.	harged by the SIU. Has the	e SIU caused or contributed to any problems (e
	Yes X No If yes, describe each ep		
	n yes, describe each e	nsoue.	
			The state of the s
CRA	HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, O	OR DEDICATED PIPELIN	IE:
.9.	RCRA Waste. Does the treatment works receive or has it in th	e past three years received l	RCRA hazardous waste by truck rail or dedic
	pipe?	o pade an oc years received i	TOTA Hazardous waste by truck, rail, of dedic
	YesX _ No (go to F.12.)		
.10. \	Waste Transport. Method by which RCRA waste is received (	check all that apply):	
	RailDedicat	ed Pipe	
.11. \	Waste Description. Give EPA hazardous waste number and a	amount (volume or mass, sp	ecify units).
	EPA Hazardous Waste Number Amount		<u>Units</u>
EDCI	A (CUDEDELIND) WASTEWATED, DODA DEMEDIATI	ONIOODDECTIVE LOTIC	
	A (SUPERFUND) WASTEWATER, RCRA REMEDIATI EWATER, AND OTHER REMEDIAL ACTIVITY WASTE		JN .
HOIL	EWATER, AND OTHER REMEDIAL ACTIVITY WASTE	MATED.	
		NATER:	
12 1	Pomodiation Waste Does the treatment waste assessed to be		
.12. I	Remediation Waste. Does the treatment works currently (or h	as it been notified that it will)	receive waste from remedial activities?
	Yes (complete F.13 through F.15.)	as it been notified that it will)	
		as it been notified that it will)	
Ī	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.19)	as it been notified that it will) No 5.) for each current and futur	e site.
.13. \	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15)  Waste Origin. Describe the site and type of facility at which the	as it been notified that it will) No 5.) for each current and futur	e site.
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.13. \\ .13. \\ .14.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15)  Waste Origin. Describe the site and type of facility at which the originate in the next five years).  Pollutants. List the hazardous constituents that are received (constituents).  Waste Treatment.	as it been notified that it will)  No  5.) for each current and future  CERCLA/RCRA/or other re  or are expected to received).	e site. emedial waste originates (or is expected to
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- i 1.13. \ 	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15)  Waste Origin. Describe the site and type of facility at which the originate in the next five years).  Pollutants. List the hazardous constituents that are received (reknown. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering Yes No  If yes, describe the treatment (provide information about	as it been notified that it will) No 5.) for each current and future e CERCLA/RCRA/or other re or are expected to received). If the treatment works?	e site.  emedial waste originates (or is expected to  Include data on volume and concentration, if
- i.13. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15)  Waste Origin. Describe the site and type of facility at which the originate in the next five years).  Pollutants. List the hazardous constituents that are received (reknown. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering	as it been notified that it will) No 5.) for each current and future e CERCLA/RCRA/or other re or are expected to received). I the treatment works? the removal efficiency):	e site.  emedial waste originates (or is expected to  Include data on volume and concentration, if

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

	IERAL INFORMAT	TION:		
F.1.	Pretreatment Progr	am. Does the treatment	works have, or is it s	subject to, an approved pretreatment program?
	V Van	Na		
	X Yes	No		
F.2.		nt Industrial Users (SIUs) a discharge to the treatmen		ustrial Users (CIUs). Provide the number of each of the following types of
	a. Number of n	on-categorical SIUs.	19	
	b. Number of C	CIUs.	22	
SIGI	NIFICANT INDUST	RIAL USER INFORI	MATION:	
Control of the Control	ly the following inform de the information red		nore than one SIU	discharges to the treatment works, copy questions F.3 through F.8 and
F.3.	Significant Industri pages as necessary.		ovide the name and	address of each SIU discharging to the treatment works. Submit additional
	Name:	Advanced Metal Fins	shing of Roanoke	
	Mailing Address:	523 Norfolk Avenue		
		Roanoke, VA 24016		
	Catagorical (Motal )	Einiching) Non dischare	a Canitani Onli	at affect or contribute to the SIU's discharge.
F.5.	Principal Product(s	Finishing) Non-discharg  and Raw Material(s).		rincipal processes and raw materials that affect or contribute to the SIU's
F.5.		s) and Raw Material(s). [	Describe all of the pr	
F.5.	Principal Product(s discharge.	e) and Raw Material(s). [	Describe all of the property o	
F.5.	Principal Product(s discharge.  Principal product(s):	e) and Raw Material(s). [	Describe all of the property o	rincipal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate, a. Process was	Electro, hydro pneun	Describe all of the property o	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallons
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate, a. Process was	Electro, hydro pneum  Gold, silver, nickel, p	Describe all of the property o	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallone
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd	Electro, hydro pneum  Gold, silver, nickel, p  stewater flow rate. Indicate ) and whether the discharged  gpd  wastewater flow rate. Inc.	natic devices  palladium, rhodium  te the average daily rge is continuous orint	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallon intermittent.
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd	Electro, hydro pneum  Gold, silver, nickel, p  stewater flow rate. Indicate ) and whether the discharged  gpd  wastewater flow rate. Incident	natic devices  palladium, rhodium  te the average daily rge is continuous orint	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallons intermittent.  termittent)  daily volume of non-process wastewater flow discharged into the collection e is continuous or intermittent.
F.6.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd	Electro, hydro pneum  Gold, silver, nickel, p  stewater flow rate. Indicate ) and whether the discharged  wastewater flow rate. Incident	Describe all of the property o	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallons intermittent.  termittent)  daily volume of non-process wastewater flow discharged into the collection e is continuous or intermittent.  intermittent)
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd  b. Non-process system in ga  Pretreatment Standa. Local limits	Electro, hydro pneum  Gold, silver, nickel, p  stewater flow rate. Indicate ) and whether the discharged  wastewater flow rate. Incidental gpd  wastewater flow rate. Incidental gpd  gpd  gpd  gpd  gpd  gpd	Describe all of the property o	rincipal processes and raw materials that affect or contribute to the SIU's  n, copper, tin, zinc, and chromate  volume of process wastewater discharged into the collection system in gallons intermittent.  termittent)  daily volume of non-process wastewater flow discharged into the collection e is continuous or intermittent.  intermittent)

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SUI	PPLEMENTA	L APPLICATION INFORMATION
PAR	TF. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All trea	atment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F
	ERAL INFORMAT	
F.1.	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	V Vos	Ala.
	XYes	No
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of n	on-categorical SIUs19
	b. Number of C	IUs. <u>22</u>
0101	UEIO ANT INDUOT	DIAL HOED INFORMATION
		RIAL USER INFORMATION: ation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
	le the information req	
F.3.	as necessary.	Il User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages
	Name:	Akzo Nobel Wood Coatings and Adhesives
	Mailing Address:	2837 Roanoke Avenue, SW
		Roanoke, VA 24015
F.4.	Industrial Processe	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Categorical (Paint a	nd Coating Manufacturer) Non-discharge
F.5.	Principal Product(s discharge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal product(s):	Solvent-based Coatings and Water-based Coatings for kitchen cabinet industry
	Raw material(s):	Resins, solvents, and pigments
	Fl Data	
F.6.	Flow Rate. a. Process was	tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons pe
		d whether the discharge is continuous or intermittent.
		gpd (continuous orintermittent)
	h Non process	wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system
		r day (gpd) and whether the discharge is continuous or intermittent.
		gpd (continuous or intermittent)
F.7.	Pretreatment Stand	ards. Indicate whether the SIU is subject to the following:
	a. Local limits	X Yes No
	b. Categorical	pretreatment standards Yes X No
		cal pretreatment standards, which category and subcategory?
	40 CFR 446 (Paint F	하면 그렇게 하는 것이 얼마나 있는데 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들

locks	rn Virginia Water Author	ity Water Dellet	Control Blant: Magggggg		MD M
este			ted to Waste Discharged by the SIU.		MB Number 2040-0086
3.	upsets, interference) at the			has the SIO caused of c	ontributed to any problems
	Yes X No	o If yes	s, describe each episode.		
	AND ASSESSED.				
					A SECTION OF THE PARTY OF THE P
RA	HAZARDOUS WASTE	E RECEIVED BY	TRUCK, RAIL, OR DEDICATED P	PELINE:	
).	DODA W		<b>传统这次公司</b> 安全		
	pipe?	treatment works re	eceive or has it in the past three years re	ceived RCRA hazardous	waste by truck, rail, or ded
		X No (go to F.1	12)		
		<u>x</u> (go			
10.	Waste Transport Meth	and by which PCPA	waste is received (check all that apply):		
	Truck	Rail	Dedicated Pipe		
11.			waste number and amount (volume or m	ass, specify units).	
	EPA Hazardous Waste N	Number	Amount	<u>Units</u>	
			V-		
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			The second second second		
				ACTION	
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			CRA REMEDIATION/CORRECTIVE CTIVITY WASTEWATER:		
AST	EWATER, AND OTHE	R REMEDIAL AC	CTIVITY WASTEWATER:		om remedial activities?
AST	Remediation Waste. Do	R REMEDIAL AC	vorks currently (or has it been notified that		om remedial activities?
AST	Remediation Waste. Do Yes (complete F.1	oes the treatment w	vorks currently (or has it been notified the	at it will) receive waste fro	om remedial activities?
AST	Remediation Waste. Do Yes (complete F.1	oes the treatment w	vorks currently (or has it been notified that	at it will) receive waste fro	om remedial activities?
AS1	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and	oes the treatment w 13 through F.15.) If the requested infor	vorks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current a	at it will) receive waste fro	
AS1	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe	oes the treatment w 13 through F.15.) If the requested inform the site and type of	vorks currently (or has it been notified the	at it will) receive waste fro	
AS1	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and	oes the treatment w 13 through F.15.) If the requested inform the site and type of	vorks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current a	at it will) receive waste fro	
AS1	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe	oes the treatment w 13 through F.15.) If the requested inform the site and type of	vorks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current a	at it will) receive waste fro	
AS1	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe	oes the treatment w 13 through F.15.) If the requested inform the site and type of	vorks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current a	at it will) receive waste fro	
12.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe	oes the treatment w 13 through F.15.) If the requested inform the site and type of	vorks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current a	at it will) receive waste fro	
12. 13.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y	oes the treatment w 13 through F.15.) If the requested infor the site and type of years).	vorks currently (or has it been notified the	at it will) receive waste from	ginates (or is expected to
12. 13.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y	oes the treatment w 3 through F.15.) If the requested inform the site and type of years).	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from	ginates (or is expected to
12. 13.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y	oes the treatment w 3 through F.15.) If the requested inform the site and type of years).	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from	ginates (or is expected to
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12. 13.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y	oes the treatment w 3 through F.15.) If the requested inform the site and type of years).	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from	ginates (or is expected to
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AST 112.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y  Pollutants. List the haza known. (Attach additional  Waste Treatment. a. Is this waste treate Yes	oes the treatment w 13 through F.15.) If the requested inform the site and type of years).  ardous constituents al sheets if necessar	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from the future site.  other remedial waste original ceived). Include data on	ginates (or is expected to
AST 112. 113.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y  Pollutants. List the haza known. (Attach additional  Waste Treatment. a. Is this waste treate Yes	oes the treatment w 13 through F.15.) If the requested inform the site and type of years).  ardous constituents all sheets if necessarial sheets if necessarial sheets.	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from the future site.  other remedial waste original ceived). Include data on	ginates (or is expected to
AST 112. 113.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y  Pollutants. List the haza known. (Attach additional  Waste Treatment. a. Is this waste treate Yes	oes the treatment w 13 through F.15.) If the requested inform the site and type of years).  ardous constituents all sheets if necessarial sheets if necessarial sheets.	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from the future site.  other remedial waste original ceived). Include data on	ginates (or is expected to
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(AST) 12.	Remediation Waste. Do Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five y  Pollutants. List the haza known. (Attach additional  Waste Treatment. a. Is this waste treate Yes If yes, describe the	oes the treatment w 3 through F.15.) If the requested inform the site and type of years).  ardous constituents all sheets if necessarial sheets if necessa	crivity wastewater:  vorks currently (or has it been notified that	at it will) receive waste from the future site.  other remedial waste original ceived). Include data on	ginates (or is expected to

	PPLEMENTA	AL APPLICATION INFORMATION
PAR	TF. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All tre	eatment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
	IERAL INFORMAT	
F.1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	XYes	No
F.2.		nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of n	on-categorical SIUs. 19
	b. Number of C	DIUs. <u>22</u>
SIGN	NIFICANT INDUST	TRIAL USER INFORMATION:
Suppl		nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
F.3.	Significant Industrial as necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages
	Name:	Allied Tool and Machine Company of Virginia
	Mailing Address:	3350 Shenandoah Avenue, N.W.
		Roanoke, VA 24017
F.4.	Industrial Processe Phosphatizing, met	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.5.	discharge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.		
F.5.	discharge.	
	discharge.  Principal product(s):  Raw material(s):	Sheet Metal Fabrication and Painting
F.5.	discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Sheet Metal Fabrication and Painting  Sheet Metal, Mild Steel Aluminum
	discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Sheet Metal Fabrication and Painting  Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per
	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process	Sheet Metal Fabrication and Painting  Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per discharge is continuous or intermittent.
	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process	Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system
F.6.	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process in gallons pe 40	Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent. gpd (continuous orX_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system or day (gpd) and whether the discharge is continuous or intermittent.
F.6.	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process in gallons pe 40	Sheet Metal Fabrication and Painting  Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per discharge is continuous or intermittent.  gpd (continuous or X_ intermittent)  stewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system or day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  lards. Indicate whether the SIU is subject to the following:  X Yes No
	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process in gallons pe 40  Pretreatment Standa. Local limits	Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system or day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  lards. Indicate whether the SIU is subject to the following:
F.6.	Principal product(s):  Raw material(s):  Flow Rate. a. Process was day (gpd) an 138  b. Non-process in gallons pe 40  Pretreatment Standa. Local limits b. Categorical p	Sheet Metal, Mild Steel Aluminum  Sheet Metal, Mild Steel Aluminum  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per discharge is continuous or intermittent.  gpd (continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system or day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  lards. Indicate whether the SIU is subject to the following:  X_Yes No

Vester					
	n Virginia Water Author			OMB Number	
8.	Problems at the Treat	tment Works Attribut	ted to Waste Discharged by the SIU. in the past three years?	Has the SIU caused or contributed to	any problems (
	Yes X		s, describe each episode.		
		ii yes	s, describe each episode.		
CRA	HAZARDOUS WAS	TE RECEIVED BY	TRUCK, RAIL, OR DEDICATED PI	DELINE:	
		TE RECEIVED BY	THOOR, TOTAL, OR DEDICATED T	i CCINC.	
9.	RCRA Waste. Does th	ne treatment works red	ceive or has it in the past three years red	ceived RCRA hazardous waste by tru	uck, rail, or dedica
	pipe?				
	Yes	X No (go to F.1:	2.)		
10.	Waste Transport. Me	thod by which RCRA	waste is received (check all that apply):		
	Truck	Rail	Dedicated Pipe	Maria de la Caración X	
11.	Waste Description. G	Sive EPA hazardous w	vaste number and amount (volume or ma	ass specify units)	
	EPA Hazardous Waste				
	El A Hazardous VVaste	Number	Amount	<u>Units</u>	
			2330230		
ERC	LA (SUPERFUND) W	ASTEWATER, RC	RA REMEDIATION/CORRECTIVE	ACTION	
HOI	EWATER, AND OTH	ER REMEDIAL AC			
IGAI	EWATER, AND OTH	ER REMEDIAL AC	TIVITY WASTEWATER:		
			TIVITY WASTEWATER:	at it will) receive waste from remedial	activities?
	Remediation Waste.	Does the treatment wo	TIVITY WASTEWATER:  orks currently (or has it been notified that	at it will) receive waste from remedial	activities?
	Remediation Waste.   Yes (complete F	Does the treatment wo	orks currently (or has it been notified that		activities?
.12.	Remediation Waste.   Yes (complete F	Does the treatment wo	TIVITY WASTEWATER:  orks currently (or has it been notified that		activities?
.12.	Remediation Waste. Yes (complete F Provide a list of sites an	Does the treatment wo .13 through F.15.) nd the requested infor	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
12.	Remediation Waste.  Yes (complete F  Provide a list of sites an  Waste Origin. Describ	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that	nd future site.	
12.	Remediation Waste. Yes (complete F Provide a list of sites an	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
12.	Remediation Waste.  Yes (complete F  Provide a list of sites an  Waste Origin. Describ	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
12.	Remediation Waste.  Yes (complete F  Provide a list of sites an  Waste Origin. Describ	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
.12.	Remediation Waste.  Yes (complete F  Provide a list of sites an  Waste Origin. Describ	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
12.	Remediation Waste.  Yes (complete F  Provide a list of sites an  Waste Origin. Describ	Does the treatment wo .13 through F.15.) and the requested information the site and type of	orks currently (or has it been notified that  X No  rmation (F.13 - F.15.) for each current ar	nd future site.	
12.	Yes (complete F Provide a list of sites an  Waste Origin. Describ originate in the next five	Does the treatment wo .13 through F.15.) nd the requested infor be the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of	nd future site. other remedial waste originates (or is	s expected to
12.	Yes (complete F Provide a list of sites an  Waste Origin. Describ originate in the next five	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of that are received (or are expected to received)	nd future site. other remedial waste originates (or is	s expected to
12.	Pollutants. List the ha	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of that are received (or are expected to received)	nd future site. other remedial waste originates (or is	s expected to
12.	Pollutants. List the ha	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of that are received (or are expected to received)	nd future site. other remedial waste originates (or is	s expected to
.12.	Pollutants. List the ha	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of that are received (or are expected to received)	nd future site. other remedial waste originates (or is	s expected to
.12.	Pollutants. List the ha	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or of that are received (or are expected to received)	nd future site. other remedial waste originates (or is	s expected to
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12. 13.	Remediation Waste.  Yes (complete F Provide a list of sites and Waste Origin. Describ originate in the next five  Pollutants. List the haknown. (Attach addition)  Waste Treatment.	Does the treatment wo .13 through F.15.) nd the requested information the site and type of e years).	orks currently (or has it been notified that  X No  mation (F.13 - F.15.) for each current and if facility at which the CERCLA/RCRA/or of that are received (or are expected to receive).	other remedial waste originates (or is	s expected to
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Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

	IERAL INFORMA	TION:
.1.	Pretreatment Prog	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
		NO THE REPORT OF THE PROPERTY
.2.	Number of Signification	ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of t discharge to the treatment works.
	a. Number of	non-categorical SIUs. 19
	b. Number of	CIUs. 22
igi	JIFICANT INDUS	TRIAL USER INFORMATION:
uppl	ly the following info	mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
rovi	de the information re	equested for each SIU.
.3.	Significant Indust	rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessar	
	Name:	NI SOO I
	Name.	ALSCO Incorporated
	Mailing Address:	3401 Shenandoah Avenue, N.W
		Roanoke, VA 24033
4.	Industrial Process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	100	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(	
	Principal Product(	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(discharge.  Principal product(s)	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry
	Principal Product(discharge.	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
.4. .5.	Principal Product(discharge.  Principal product(s)  Raw material(s):	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process waper day (gp 44,354	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 44,354  b. Non-proces	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 44,354  b. Non-proces	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
.6.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process waper day (gp 44,354  b. Non-proces system in g 840	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
.5.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was per day (gp 44,354 b. Non-proces system in g 840  Pretreatment Standard	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
.6.	Principal Product(discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process waper day (gp 44,354  b. Non-proces system in g 840  Pretreatment Standa. Local limits	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Commercial Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)

8.	rn Virginia Water Authority Water Polluti	ion Control Plant: VA0025020	OMB Number 2040-0086
		buted to Waste Discharged by the SIU. Has	the SIU caused or contributed to any problems (
		yes, describe each episode.	
CRA	A HAZARDOUS WASTE RECEIVED B	SY TRUCK, RAIL, OR DEDICATED PIPEL	INE:
.9.	RCRA Waste. Does the treatment works pipe?	receive or has it in the past three years receive	ed RCRA hazardous waste by truck, rail, or dedic
	Yes X No (go to F	F.12.)	
10.	Waste Transport. Method by which RCR	RA waste is received (check all that apply):	
	TruckRail	Dedicated Pipe	
	Wast Barriel Co. Tour		
11.	Waste Description. Give EPA hazardous EPA Hazardous Waste Number	s waste number and amount (volume or mass,  Amount	
	LEA Hazardous Waste Number	Amount	<u>Units</u>
		100	
EDC	I A (STIDEDELIND) WASTEWATED I	RCRA REMEDIATION/CORRECTIVE AC	TION
	Yes (complete F.13 through F.15.)	X No	
40		nformation (F.13 - F.15.) for each current and fu	
13.		nformation (F.13 - F.15.) for each current and further of facility at which the CERCLA/RCRA/or other	
.13.	Waste Origin. Describe the site and type		
	Waste Origin. Describe the site and type originate in the next five years).	e of facility at which the CERCLA/RCRA/or other	r remedial waste originates (or is expected to
	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer	e of facility at which the CERCLA/RCRA/or other	r remedial waste originates (or is expected to
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer	e of facility at which the CERCLA/RCRA/or other	r remedial waste originates (or is expected to
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces	e of facility at which the CERCLA/RCRA/or other	r remedial waste originates (or is expected to
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces  Waste Treatment.  a. Is this waste treated (or will it be tree	e of facility at which the CERCLA/RCRA/or other onts that are received (or are expected to receive sary).	r remedial waste originates (or is expected to
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces  Waste Treatment.  a. Is this waste treated (or will it be tree	e of facility at which the CERCLA/RCRA/or other	r remedial waste originates (or is expected to
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	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces  Waste Treatment.  a. Is this waste treated (or will it be tree	e of facility at which the CERCLA/RCRA/or other that are received (or are expected to receive sary).  eated) prior to entering the treatment works?  ide information about the removal efficiency):	
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces  Waste Treatment.  a. Is this waste treated (or will it be treedy a constituent of the constituent	e of facility at which the CERCLA/RCRA/or other that are received (or are expected to receive sary).  eated) prior to entering the treatment works? ide information about the removal efficiency):	r remedial waste originates (or is expected to
14.	Waste Origin. Describe the site and type originate in the next five years).  Pollutants. List the hazardous constituer known. (Attach additional sheets if neces)  Waste Treatment.  a. Is this waste treated (or will it be tree yes No	e of facility at which the CERCLA/RCRA/or other that are received (or are expected to receive sary).  eated) prior to entering the treatment works?  ide information about the removal efficiency):	r remedial waste originates (or is expected to

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

h of the following types of stions F.3 through F.8 and tworks. Submit additional
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stions F.3 through F.8 and
stions F.3 through F.8 and
nt works. Submit additional
it works. Submit additional
CREE LAND AND
or contribute to the SIU's
ne collection system in gallon
charged into the collection
h

lacto	rn Virginia Water Authority Water Bellution Co	entral Blant: VA0025020	040 44 4 2040 2000
este	rn Virginia Water Authority Water Pollution Co	The state of the s	OMB Number 2040-0086  Has the SIU caused or contributed to any problems (
8.	upsets, interference) at the treatment works in the		has the Sio caused or contributed to any problems (
		escribe each episode.	
		escribe each episode.	
	Marine Marine Marine Marine	And Million Control	
CR/	HAZARDOUS WASTE RECEIVED BY TR	UCK, RAIL, OR DEDICATED P	IPELINE:
.9.	pipe?	ve or has it in the past three years re	eceived RCRA hazardous waste by truck, rail, or dedic
	YesX No (go to F.12.)		
10.	Waste Transport. Method by which RCRA was	ste is received (check all that apply)	
	Truck Rail	Dedicated Pipe	
	Truck Rail	Dedicated Fipe	
.11.	Waste Description. Give EPA hazardous wast	te number and amount (volume or n	nass, specify units).
	EPA Hazardous Waste Number	Amount	Units
	<u></u>		
EDC	A (CLIDEDELIND) WASTEWATED DODA	DEMEDIATION/CORDECTIVE	ACTION
	LA (SUPERFUND) WASTEWATER, RCRA		ACTION
		VITY MACTEMATED.	
VAS	TEWATER, AND OTHER REMEDIAL ACTIV	VITY WASTEWATER:	
	Remediation Waste. Does the treatment works		at it will) receive waste from remedial activities?
			at it will) receive waste from remedial activities?
	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)	s currently (or has it been notified th	
.12.	Remediation Waste. Does the treatment works	s currently (or has it been notified th	
.12.	Provide a list of sites and the requested information.	s currently (or has it been notified the X No stion (F.13 - F.15.) for each current a	and future site.
.12.	Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of face.	s currently (or has it been notified the X No stion (F.13 - F.15.) for each current a	
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.12.	Pollutants. List the hazardous constituents that	s currently (or has it been notified the X No stion (F.13 - F.15.) for each current a cility at which the CERCLA/RCRA/or	and future site.
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	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested informate waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).	s currently (or has it been notified the X No stion (F.13 - F.15.) for each current a cility at which the CERCLA/RCRA/or	ond future site.
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112.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested informate waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated)  YesNo	s currently (or has it been notified theXNo	other remedial waste originates (or is expected to eccived). Include data on volume and concentration, if
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	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested informate waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated)  YesNo	s currently (or has it been notified the	other remedial waste originates (or is expected to eccived). Include data on volume and concentration, if
.12.	Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated)  Yes No  If yes, describe the treatment (provide info	s currently (or has it been notified theXNo attion (F.13 - F.15.) for each current attion (F.13 - F.15.) for each current attion at which the CERCLA/RCRA/or attack are received (or are expected to respect to entering the treatment works formation about the removal efficient continuous or intermittent?	other remedial waste originates (or is expected to exceived). Include data on volume and concentration, if
112.	Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated)  Yes No  If yes, describe the treatment (provide info	s currently (or has it been notified theXNo attion (F.13 - F.15.) for each current attion (F.13 - F.15.) for each current attion at which the CERCLA/RCRA/or attack are received (or are expected to respect to entering the treatment works formation about the removal efficient continuous or intermittent?	other remedial waste originates (or is expected to eccived). Include data on volume and concentration, if

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

	IERAL INFORMA	TION:
1.	Pretreatment Prog	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
2.	Number of Signification industrial users that	ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of t discharge to the treatment works.
		non-categorical SIUs. 19
	b. Number of	CIUs. <u>22</u>
IGN	NIFICANT INDUS	TRIAL USER INFORMATION:
ıpp	ly the following info	rmation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
OVI	de the information re	equested for each SIU.
3.		rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessar	<i>y</i> .
	Name:	Carillian Launday Sandaa
	Name.	Carilion Laundry Service
	Mailing Address:	2823 Franklin Road, Building C
	Mailing Address:	2823 Franklin Road, Building C Roanoke, VA 24014
	Mailing Address:	
4.		
4.		Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Process	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
4.	Industrial Process Linen Rental and Principal Product	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Process Linen Rental and Principal Product discharge.	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Process Linen Rental and Principal Product discharge.	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s) Raw material(s):	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry
	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s) Raw material(s):	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was	Roanoke, VA 24014  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  estewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallous
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 57,009  b. Non-proces	Roanoke, VA 24014  Sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  estewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 57,009  b. Non-proces	Roanoke, VA 24014  Sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  estewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallot and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)
5.	Industrial Process Linen Rental and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 57,009  b. Non-proces system in g	Roanoke, VA 24014  sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  estewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallod) and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
i.	Industrial Process Linen Rental and in Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was per day (gp 57,009  b. Non-proces system in g 1,380	Roanoke, VA 24014  sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  estewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallod) and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
	Industrial Process Linen Rental and in Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was per day (gp 57,009  b. Non-proces system in g 1,380	Roanoke, VA 24014  ies. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Laundry Service  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  : Hospital Laundry  Alkaline cleaners, builders, enzyme detergents, bleachers, softeners, and sour salt  istewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallod) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  dards. Indicate whether the SIU is subject to the following:

	ITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Veste	rn Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
.8.	Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the upsets, interference) at the treatment works in the past three years?	e SIU caused or contributed to any problems (e
	Yes X No If yes, describe each episode.	
CDA	HAZADDOUG WASTE DECEMED BY TRUCK DAIL OF DEDICATED DIFFEREN	
CK	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELIN	E:
.9.	RCRA Waste. Does the treatment works receive or has it in the past three years received Pipe?	RCRA hazardous waste by truck, rail, or dedica
	YesX No (go to F.12.)	
.10.	Waste Transport. Method by which RCRA waste is received (check all that apply):	
	Truck Rail Dedicated Pipe	
.11.	Waste Description. Give EPA hazardous waste number and amount (volume or mass, spe	ecify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
ERC	LA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTIO	ON .
VAST	EWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
.12.	Remediation Waste. Does the treatment works currently (or has it been notified that it will)  Yes (complete F.13 through F.15.)  X  No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future	
		e site.
.12.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other re-	e site. emedial waste originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received).	e site. emedial waste originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). known. (Attach additional sheets if necessary).	e site. emedial waste originates (or is expected to
13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	e site. emedial waste originates (or is expected to
13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	e site. emedial waste originates (or is expected to
13.	Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	e site. emedial waste originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other reoriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	e site.  emedial waste originates (or is expected to  Include data on volume and concentration, if

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

GEN F.1.	TO AL INICODMAT	
5 1	ERAL INFORMAT	
	Pretreatment Progra	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
F.2.	Number of Significant	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
		on-categorical SIUs. 19
	b. Number of C	
		TRIAL USER INFORMATION:
	ly the following inform de the information req	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and quested for each SIU.
F.3.	Ci Continuetri	
r.s.	Significant Industria pages as necessary.	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	CEI Roanoke, Inc.
	Mailing Address:	4411 Plantation Road N.E.
		Roanoke, VA 24012
F.4.	Industrial Processe	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
		g, Compounding, Manufacturing, Blending
	Principal Product(s'	A see State in the County of the principal processes and your materials that offers ar contribute to the CII l'o
F.5.		and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.	discharge.	) and Raw Material(s). Describe all of the principal processes and raw materials that affect of contribute to the SIO's
F.5.		
F.5.	discharge.	
F.5.	discharge.	
	Principal product(s):  Raw material(s):	Cosmestics and Skin Care Products (Creams, lotions, and gels)
F.5.	discharge.  Principal product(s):  Raw material(s):  Flow Rate.	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	Cosmestics and Skin Care Products (Creams, lotions, and gels)
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.6.	rincipal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process system in gal  3,249	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  Itewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process system in gal  3,249  Pretreatment Standa	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  Itewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  Itemater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection flons per day (gpd) and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
F.6.	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process system in gal 3,249  Pretreatment Standa a. Local limits	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  Itewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  Itemater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection flons per day (gpd) and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
F.6.	Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  11,895  b. Non-process system in gal 3,249  Pretreatment Standa a. Local limits	Cosmestics and Skin Care Products (Creams, lotions, and gels)  Denatured alcohol, ethyl alcohol, essential oils, emulsifiers, and wax  Itewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)

	Virginia Water Authority Water		A STATE OF THE PARTY OF THE PAR	OMB Number 2040-0086
.0.				ne SIU caused or contributed to any problems (e
	upsets, interference) at the treatm			
-	Yes X No	If yes, describe each	episode.	
		Service and the service of		
100	CA BUSINESSES			
CRA	HAZARDOUS WASTE RECE	VED BY TRUCK, RAIL	., OR DEDICATED PIPELII	NE:
	RCRA Waste. Does the treatmer pipe?	it works receive or has it in	the past three years received	RCRA hazardous waste by truck, rail, or dedica
	Yes X No	(go to F.12.)		
.10.	Waste Transport. Method by wh	ich RCRA waste is receive	ed (check all that apply):	
	Truck Ra	il Dedi	cated Pipe	
.11. 1	Wasta Description Give EBA be	zardoue weete number er	ad amount (valuma as mass	
	Waste Description. Give EPA ha	azardous waste number ar	id amount (volume or mass, sp	pecify units).
	EPA Hazardous Waste Number	Amo	<u>unt</u>	<u>Units</u>
	The second second second second second		THE RESERVE TO SERVE THE PARTY OF THE PARTY	
-				
	A (SUPERFUND) WASTEWA			ION
ASTE	WATER, AND OTHER REME	DIAL ACTIVITY WAST	TEWATER:	A CONTRACTOR OF THE PARTY OF TH
.12. F	Remediation Waste. Does the tr	eatment works currently (c	or has it been notified that it will	II) receive waste from remedial activities?
	Yes (complete F.13 through	F.15.)	X No	
	Provide a list of sites and the requi	acted information /E 12	15 ) for each current and futu	un alta
	Provide a list of sites and the requ	ested information (F.13 - F	F.15.) for each current and futu	ure site.
.13. \	Waste Origin. Describe the site a			remedial waste originates (or is expected to
.13. \				
.13. \	Waste Origin. Describe the site a			
.13. \	Waste Origin. Describe the site a			
.13. \	Waste Origin. Describe the site a originate in the next five years).			
.13. \	Waste Origin. Describe the site a originate in the next five years).			
- -	Waste Origin. Describe the site a originate in the next five years).	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
.13.	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous co	and type of facility at which	the CERCLA/RCRA/or other r	
.13. \	Waste Origin. Describe the site a originate in the next five years).	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
.13.	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous co	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
.13. \ - -	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous co	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
-13. \ 	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous co	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the next five years.	and type of facility at which	the CERCLA/RCRA/or other r	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous coknown. (Attach additional sheets in the same of	enstituents that are received in necessary).	the CERCLA/RCRA/or other received (or are expected to received)	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the next five years.	enstituents that are received in necessary).	the CERCLA/RCRA/or other received (or are expected to received)	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a originate in the next five years).  Pollutants. List the hazardous coknown. (Attach additional sheets in the same of	enstituents that are received in necessary).	the CERCLA/RCRA/or other received (or are expected to received)	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to received of the treatment works?	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous c	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to received of the treatment works?	remedial waste originates (or is expected to
.13. \\	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to received of the treatment works?	remedial waste originates (or is expected to
5.13. V	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to received of the treatment works?	remedial waste originates (or is expected to
F.13. V	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to received of the treatment works?	remedial waste originates (or is expected to
F.13. N	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received in necessary).	the CERCLA/RCRA/or other red to the certification of the certification o	remedial waste originates (or is expected to
F.13. N	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the hazardous c	enstituents that are received if necessary).	the CERCLA/RCRA/or other red to the certification of the certification o	). Include data on volume and concentration, if
13. N	Waste Origin. Describe the site a priginate in the next five years).  Pollutants. List the hazardous contained in the next five years).  Waste Treatment.  Is this waste treated (or will yes	enstituents that are received in necessary).	the CERCLA/RCRA/or other red to the certification of the certification o	). Include data on volume and concentration, if

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

		ng discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete F
EN	NERAL INFORMA	TION:
.1.	Pretreatment Proc	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	i reacaunem i ros	rain. Does the treatment works have, or is it subject to, an approved preseasilient program?
	X Yes	No No
.2.		
.2.	Number of Signification	ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of t discharge to the treatment works.
		non-categorical SIUs. 19
	b. Number of	######################################
		TRIAL USER INFORMATION:
		rmation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and equested for each SIU.
-	de the illionnation re	iquested for each sto.
.3.		rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessar	<i>f</i> -
	Name:	Coca-Cola Bottling Company Consolidated
	ivaine.	Coca-Cola Botting Company Consolidated
	Mailing Address:	235 Shenandoah Avenue, NW
	Mailing Address:	235 Shenandoah Avenue, NW Roanoke, VA 24016
	Mailing Address:	
4.		Roanoke, VA 24016
.4.	Industrial Process	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
.4.	Industrial Process	Roanoke, VA 24016
	Industrial Process  Manufacturing and  Principal Product(	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Process	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks
	Industrial Process Manufacturing and Principal Product( discharge.	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Process  Manufacturing and  Principal Product(	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks
	Industrial Process Manufacturing and Principal Product( discharge.	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s) Raw material(s):	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks
:.4. :.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners
.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners
.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.
.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 76,896	Roanoke, VA 24016  Sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)
.5.	Industrial Process  Manufacturing and  Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 76,896  b. Non-process	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.
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.5.	Industrial Process  Manufacturing and  Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 76,896  b. Non-proces system in g	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
.5.	Industrial Process  Manufacturing and  Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
.5.	Industrial Process  Manufacturing and  Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
.6.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 76,896  b. Non-proces system in g 4,000  Pretreatment Stan a. Local limits	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor d) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection rallons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
.5.	Industrial Process Manufacturing and Principal Product( discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 76,896  b. Non-proces system in g 4,000  Pretreatment Stan a. Local limits	Roanoke, VA 24016  ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  d Bottling Soft Drinks  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Corn syrup, flavorings, Phosphoric Acid, Sanitizers, Sulfuric Acid, and Alkaline Cleaners  setewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor d) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  dards. Indicate whether the SIU is subject to the following:  X_YesNo

		llution Control Plant; VA0025020	OMB Number 2040-0086
Proble	ems at the Treatment Works A	Attributed to Waste Discharged by the SIU.	Has the SIU caused or contributed to any problems
	, interference) at the treatment	works in the past three years?	
	Yes X No	If yes, describe each episode.	
			STATE OF THE PARTY
CRA HAZA	RDOUS WASTE RECEIVE	D BY TRUCK, RAIL, OR DEDICATED PI	PELINE:
9. RCRA pipe?	Waste. Does the treatment wo	orks receive or has it in the past three years rec	ceived RCRA hazardous waste by truck, rail, or dedi
	Yes X No (go	to F.12.)	
0. Waste	Transport. Method by which F	RCRA waste is received (check all that apply):	
	TruckRail	Dedicated Pipe	
1. Waste	Description. Give EPA hazard	dous waste number and amount (volume or ma	ass, specify units).
EPA H	azardous Waste Number	Amount	Units
1	to prove the second		
		R, RCRA REMEDIATION/CORRECTIVE	ACTION
ASTEWAT	ER, AND OTHER REMEDIA	AL ACTIVITY WASTEWATER:	
	Yes (complete F.13 through F.1		t it will) receive waste from remedial activities?
Provide	Yes (complete F.13 through F.1 e a list of sites and the requeste	5.) X No d information (F.13 - F.15.) for each current an	d future site.
Provide	Yes (complete F.13 through F.1 e a list of sites and the requeste	5.) X No d information (F.13 - F.15.) for each current an	
Provide  3. Waste	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and	5.) X No d information (F.13 - F.15.) for each current an	d future site.
Provide  3. Waste	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and	5.) X No d information (F.13 - F.15.) for each current an	d future site.
Provide	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and	5.) X No d information (F.13 - F.15.) for each current an	d future site.
Provide  3. Waste	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and	5.) X No d information (F.13 - F.15.) for each current an	d future site.
Provide  3. Waste original	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new persons and the complete sites and the requeste sites and the complete sites and the requeste sites are sites and the requeste sites and the requeste sites are sites are sites and the requeste sites are sit	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	d future site.  other remedial waste originates (or is expected to
Provide  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  Treatment.	5.) X No d information (F.13 - F.15.) for each current an type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provide  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  Treatment.	5.) X No Id information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of facility at which the CERCLA/RCRA/or of the current and type of the current and ty	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provide  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  Treatment.	5.) X No d information (F.13 - F.15.) for each current an type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provide  Waste originat  Polluta known.  Waste a. I	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new the site and to the interest five years).	5.) X No d information (F.13 - F.15.) for each current an type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provide  Waste originat  Polluta known.  Waste a. I	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new the site and to the interest five years).	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provide  Waste originat  Polluta known.  Waste a. I	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new the site and to the interest five years).	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided  13. Waste original  14. Polluta known.  5. Waste a. I	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new the site and to the interest five years).	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided 13. Waste original 14. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitution (Attach additional sheets if new the site and to the interest five years).	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided 13. Waste original known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  Treatment. Is this waste treated (or will it be Yes No f yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided 13. Waste original known.	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitute. (Attach additional sheets if new Yes No  If yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).  e treated) prior to entering the treatment works?  rovide information about the removal efficiency	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provides  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and the in the next five years).  Treatment. Is this waste treated (or will it be Yes No f yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).  e treated) prior to entering the treatment works?  rovide information about the removal efficiency	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provides  3. Waste original  4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitute. (Attach additional sheets if new Yes No  If yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).  e treated) prior to entering the treatment works?  rovide information about the removal efficiency	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided 3. Waste original 4. Polluta known.	Yes (complete F.13 through F.1 e a list of sites and the requeste  Origin. Describe the site and to the in the next five years).  ants. List the hazardous constitute. (Attach additional sheets if new Yes No  If yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).  e treated) prior to entering the treatment works?  rovide information about the removal efficiency	other remedial waste originates (or is expected to eived). Include data on volume and concentration,
Provided  13. Waste originate origin	Yes (complete F.13 through F.1 e a list of sites and the requeste Origin. Describe the site and to the in the next five years).  ants. List the hazardous constit (Attach additional sheets if next this waste treated (or will it be Yes No If yes, describe the treatment (p	5.) X No d information (F.13 - F.15.) for each current and type of facility at which the CERCLA/RCRA/or of tuents that are received (or are expected to recessary).  e treated) prior to entering the treatment works?  rovide information about the removal efficiency thange be) continuous or intermittent?  Intermittent If intermittent, descriptions.	other remedial waste originates (or is expected to eived). Include data on volume and concentration,

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

CEN	eatment works receiving	
GLIN	NERAL INFORMAT	TION:
F.1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No No
F.2.		nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
		on-categorical SIUs. 19
	b. Number of C	
2:01	WEIG ANT INDUCT	
		TRIAL USER INFORMATION: nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
	ide the information rec	
F.3.	Significant Industri	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessary.	
	Name:	Carilion Roanoke Memorial Hospital
	Name.	Carmon Roanoke Memorial nospital
	Mailing Address:	1906 Belleview Avenue, SW
		Roanoke, VA 24014
F.4.	Industrial Processe	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	General Medical an	d Surgical Hospital
F.5.	Principal Product(s	d Surgical Hospital  a) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.		
F.5.	Principal Product(s discharge.	
F.5.	Principal Product(s	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.	Principal Product(s discharge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s discharge.  Principal product(s):  Raw material(s):	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  N/A
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  N/A  Acids, Alkalis, and formaldehyde
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  N/A
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  N/A  Acids, Alkalis, and formaldehyde  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931	Acids, Alkalis, and formaldehyde  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process system in ga	Acids, Alkalis, and formaldehyde  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lilions per day (gpd) and whether the discharge is continuous or intermittent.
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process	Acids, Alkalis, and formaldehyde  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of process wastewater flow discharged into the collection system in gallons are wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.6.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process system in ga 134,438	Acids, Alkalis, and formaldehyde  Acids, Alkalis, and formaldehyde  Acids and whether the discharge is continuous or intermittent.  gpd  (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons in the collection system in gallons of the continuous or intermittent.  gpd  (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection intermittent.  gpd  (Xcontinuous or intermittent)
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process system in ga 134,438	Acids, Alkalis, and formaldehyde  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
F.6.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process system in ga 134,438  Pretreatment Standa. Local limits	Acids, Alkalis, and formaldehyde  Acids, Alkalis, and formaldehyde  Acids and whether the discharge is continuous or intermittent.  gpd  (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallong and whether the discharge is continuous or intermittent.  gpd  (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection illons per day (gpd) and whether the discharge is continuous or intermittent.  gpd  (Xcontinuous or intermittent)
F.6.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 23,931  b. Non-process system in ga 134,438  Pretreatment Standa. Local limits	Acids, Alkalis, and formaldehyde  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:  _X_Yes No

ACILITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Vestern Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Ha upsets, interference) at the treatment works in the past three years?	
Yes X No If yes, describe each episode.	
CRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPE	ELINE:
.9. RCRA Waste. Does the treatment works receive or has it in the past three years receive pipe?  Yes X No (go to F.12.)	ved RCRA hazardous waste by truck, rail, or dedicate
.10. Waste Transport. Method by which RCRA waste is received (check all that apply):	
TruckRailDedicated Pipe	
.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass EPA Hazardous Waste Number Amount	
EPA Hazardous Waste Number Amount	<u>Units</u>
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE AC	CTION
ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
.12. Remediation Waste. Does the treatment works currently (or has it been notified that it Yes (complete F.13 through F.15.)	
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and the requested information (F.13 - F.15.)	future site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and formation.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other	future site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and formation.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other	future site.  ner remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and formation (F.13 - F.15.) for each current and for each current and for each current and formation (F.13 - F.15.) for each current and for each current and for each current a	future site.  ner remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and find the sites and the requested information (F.13 - F.15.) for each current and find the sites and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to receive known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	future site.  ner remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and formation (F.13 - F.15.) for each current and for each cu	future site.  ner remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and find the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are expected to receive known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No	future site.  ner remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to receive known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	future site.  ner remedial waste originates (or is expected to

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Western Vigrinia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

	NERAL INFORMAT	ION:
.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
		bn-categorical SIUs. 19
	b. Number of C	(1) [1] 1 [1] 1 [1] 1 [1] 1 [1] <del>1 [1] 1 </del>
		RIAL USER INFORMATION:
		nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
IOVI	ide the information req	uesteu ioi eacii Sio.
.3.		al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessary.	
	Name:	Dynax America Corporation
	Name.	byliax Allienca Corporation
	Mailing Address:	568 East Park Drive, NE
		Roanoke, VA 24019
4.	Industrial Processes	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Stamping Flattenin	
	Stamping, Flattenin	g, Deburring, Tempering, Ring cooling, Etching
.5.		
F.5.		g, Deburring, Tempering, Ring cooling, Etching
÷.5.	Principal Product(s) discharge.	g, Deburring, Tempering, Ring cooling, Etching and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.	Principal Product(s)	g, Deburring, Tempering, Ring cooling, Etching
F.5.	Principal Product(s) discharge.  Principal product(s):	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions
=.5.	Principal Product(s) discharge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents,
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate.	g, Deburring, Tempering, Ring cooling, Etching  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	g, Deburring, Tempering, Ring cooling, Etching  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	g, Deburring, Tempering, Ring cooling, Etching  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474	Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process	Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal	g, Deburring, Tempering, Ring cooling, Etching  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal  11,580	g, Deburring, Tempering, Ring cooling, Etching  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.
₹.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal  11,580	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  Evewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
₹.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal  11,580  Pretreatment Standa a. Local limits	A pand Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  Rewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
₹.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal  11,580  Pretreatment Standa a. Local limits	And Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  Elewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:  Yes No
₹.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  189,474  b. Non-process system in gal  11,580  Pretreatment Standa a. Local limits b. Categorical p	And Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel Friction and Mating Plates for Automatic Transmissions  Steel, Acids, Alkaline degreasers, NaOH, KOH, Ferric Chloride, Resin, Phenol, MEK, Solvents, and Hydrolic Fluids  Elewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:  _X_Yes No

	rn Virginia Water Authority Water Pollution Cor	ntrol Plant; VA0025020	OMB Number 2040-0086			
	Problems at the Treatment Works Attributed to	o Waste Discharged by the SIU. Has	the SIU caused or contributed to any problems (			
8.	upsets, interference) at the treatment works in the past three years?					
	Yes X No If yes, describe each episode.					
	ZODE TREE PRODUCTION		1552 36 36 36 45			
CR/	HAZARDOUS WASTE RECEIVED BY TRU	JCK, RAIL, OR DEDICATED PIPEI	LINE:			
9.	BCBA Waste Dass the treatment walks receive					
J.	pipe?	or has it in the past three years receive	ed RCRA hazardous waste by truck, rail, or dedic			
	Yes X No (go to F.12.)					
10.	Waste Transport. Method by which RCRA wast	e is received (check all that apply):				
	Truck Rail	Dedicated Pipe				
11.	Waste Description. Give EPA hazardous waste	number and amount (volume or mass	enecify unite)			
	EPA Hazardous Waste Number					
	LFA Hazardous Waste Number	Amount	<u>Units</u>			
		<del> </del>				
	<u> </u>					
100						
ERC	LA (SUPERFUND) WASTEWATER, RCRA	REMEDIATION/CORRECTIVE AC	TION			
110	<b>TEWATER, AND OTHER REMEDIAL ACTIV</b>					
AS	ETTATER, AND OTHER REMEDIAL ACTIV	ITY WASTEWATER:				
VAS						
	Remediation Waste. Does the treatment works		will) receive waste from remedial activities?			
			will) receive waste from remedial activities?			
	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)	currently (or has it been notified that it v				
.12.	Remediation Waste. Does the treatment works	currently (or has it been notified that it v				
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fu	uture site.			
12.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
12.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
12.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
12.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
12.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided the provided that the same of	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to receive	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) property or the property of the provided in the provided	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to receive	uture site. er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) property or the property of the provided in the provided	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to receive	uture site. er remedial waste originates (or is expected to			
.13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) property or the property of the provided in the provided	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to receive	uture site. er remedial waste originates (or is expected to			
.13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) pure	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to received)  rior to entering the treatment works?	uture site. er remedial waste originates (or is expected to			
	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provide information of the provide information.  If yes, describe the treatment (provide information).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to received) rior to entering the treatment works?  rmation about the removal efficiency):	uture site. er remedial waste originates (or is expected to			
.13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provide information of the provide information.  If yes, describe the treatment (provide information).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to received)  rior to entering the treatment works?	er remedial waste originates (or is expected to			
13.	Remediation Waste. Does the treatment works  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provide information of the provide information.  If yes, describe the treatment (provide information).	currently (or has it been notified that it v  X No on (F.13 - F.15.) for each current and fullity at which the CERCLA/RCRA/or other are received (or are expected to received) rior to entering the treatment works?  rmation about the removal efficiency):	er remedial waste originates (or is expected to			

Form Approved 1/14/99

Western Virginia Water Authority Water Pollution Control Plant: VA0025020

SU		L APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All tro	atment works receiving	discharges from significant industrial upons as which reaches DSDA CEDGLA
	IERAL INFORMAT	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
F.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	XYes	No
F.2.	Number of Significan	t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial
	users that discharge	to the treatment works.
	a. Number of no	on-categorical SIUs. 19
	b. Number of C	IUs. <u>22</u>
SIGN	MEICANT INDUST	RIAL USER INFORMATION:
		ATTACK AND ATTACK ATTACK.  Attack to the treatment works, copy questions F.3 through F.8 and provide
the in	formation requested for	or each SIU.
F.3.	Significant Industria necessary.	Il User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	Name:	Eagle United Truck Wash
T.	Mailing Address:	3018 Lee Highway South
		Troutville, VA 24175
F.5.	Truck Wash; Other s	support activities for road transportation
	Principal Product(s)	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):	N/A
	Raw material(s):	Sodium Metasilicate, Trisodium Nitriatriacetate, Monohydrate, Alklyphenol Ehtoxylate, acids, and oil & grea
		acids, and oil & grease.
F.6.	Flow Rate. a. Process wast	ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per
	day (gpd) and	whether the discharge is continuous or intermittent.
	2,100	gpd (continuous or Xintermittent)
		wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in ay (gpd) and whether the discharge is continuous or intermittent.
	160	gpd (Xcontinuous or intermittent)
F.7.	Pretreatment Standa	rds. Indicate whether the SIU is subject to the following:
	a. Local limits	X Yes No
	b. Categorical p	retreatment standards X Yes No

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Intermittent If intermittent, describe discharge schedule.

Continuous

Is the discharge (or will the discharge be) continuous or intermittent?

SU	PPLEMENTA	L APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	. USER DISCHARGES AND RCRA/CERCLA WASTES
GEN	ERAL INFORMAT	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
part !		
F.1.	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	v v	
	X Yes	No
F.2.	Number of Significan	at Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial
	users that discharge	to the treatment works.
		on-categorical SIUs. 19
	b. Number of C	ElUs
SIGN	NIFICANT INDUST	TRIAL USER INFORMATION:
	ly the following inform formation requested f	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
the m	iormanon requested i	of each Sio.
F.3.	Significant Industria necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	necessary.	
	Name:	Excelis Incorporated
	Mailing Address:	7635 Plantation Road, NW
		Roanoke, VA 24019
F.4.		s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Electronic Crystals
	metal Fillishing and	Electionic Orystals
F.5.	Di-1-12-1-4	
	Principal Product(s	) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
5	Principal product(s):	Manufactures and assembles night vision goggles and electronic crystal cathodes
	Raw material(s):	Fluoride, Molybdenum, Isopropanol, methanol, acetone, acids, alkalies, and metals
F.6.	Flow Rate. a. Process was	towater flow rate. Indicate the average delike plane of any and the delike the delike the second sec
		tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent.
	65,000	gpd (_X_continuous orintermittent)
	b. Non-process	westowater flow rate. Indicate the average delity relune of
		wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in lay (gpd) and whether the discharge is continuous or intermittent.
	67,100	gpd (Xcontinuous or intermittent)
F.7.		ards. Indicate whether the SIU is subject to the following:
	a. Local limits	X Yes No
	b. Categorical p	pretreatment standards X Yes No
	If subject to categoris	cal pretreatment standards, which category and subcategory?
	Metal Finishing and	
	metar i mishing and	Electronic Oryania

	Form Approved 1/14/99
Vestern Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the	
8. upsets, interference) at the treatment works in the past three years?	
Yes X No If yes, describe each episode.	
	A DESCRIPTION OF THE PROPERTY
CRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELII	NE:
9. RCRA Waste. Does the treatment works receive or has it in the past three years received pipe?	RCRA hazardous waste by truck, rail, or dedical
YesX No (go to F.12.)	
<ol> <li>Waste Transport. Method by which RCRA waste is received (check all that apply):</li> </ol>	
TruckRailDedicated Pipe	
11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, sp	pecify units).
EPA Hazardous Waste Number Amount	<u>Units</u>
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTI	ION
ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	ION
12. Remediation Waste. Does the treatment works currently (or has it been notified that it willYes (complete F.13 through F.15.)XNo	II) receive waste from remedial activities?
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.	ure site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the c	ure site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the c	ure site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the site and type of facility at which the CERCLA/RCRA/or other in the complete of the c	ure site.
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future to the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received)	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received)	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received)	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other to originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  No Provide a list of sites and the requested information (F.13 - F.15.) for each current and futured as the site and type of facility at which the CERCLA/RCRA/or other coriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other to originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).	ure site. remedial waste originates (or is expected to
Yes (complete F.13 through F.15.)  No Provide a list of sites and the requested information (F.13 - F.15.) for each current and futured as the site and type of facility at which the CERCLA/RCRA/or other coriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and futures.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  YesNo	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  YesNo	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other coriginate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  YesNo  If yes, describe the treatment (provide information about the removal efficiency):	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?	ure site. remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future.  13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	remedial waste originates (or is expected to
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future 13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	remedial waste originates (or is expected to

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

SU	PPLEMENTA	L APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All trea	atment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
	IERAL INFORMAT	
F.1.	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
	£	
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial
		to the treatment works.  on-categorical SIUs.  19
3	b. Number of C	
		RIAL USER INFORMATION:
	ly the following inform formation requested f	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide or each SIU.
F.3.	necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	Name:	Freight Car America
	Mailing Address:	830 Campbell Avenue, SE
		Roanoke, VA 24012
	Industrial December 1	
F.4.		s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	510 00de. 5745. Na	ilroad Equipment; Facility manufactures steel and aluminum freight cars for railroad transportation
F.5.		
	Principal Product(s	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):	Steel and aluminum freight cars
	r inicipal product(s).	occi and ardininum neight cars
	Raw material(s):	Aluminum sheet metal, NaOH, HCI, phosphoric acid, brightners, surfactants, paint thinners,
1988		and hydraulic oil
F.6.	Flow Rate.	
	<ul> <li>Process was day (gpd) and</li> </ul>	tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent.
	1,500	gpd (continuous or X_ intermittent)
193	A COLUMN RE	
	<ul> <li>b. Non-process gallons per d</li> </ul>	wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in ay (gpd) and whether the discharge is continuous or intermittent.
	6,000	gpd (continuous or _X_ intermittent)
F.7.	Pretreatment Stand	ards. Indicate whether the SIU is subject to the following:
	a. Local limits	X Yes No
	b. Categorical p	retreatment standards X Yes No
	If subject to categoric	al pretreatment standards, which category and subcategory?
	40 CFR Part 433 (Me	etal Finishing)

ACIL	ITY NAME AND PERMIT NUMBER:	Form Approved 1/14/99
Veste	ern Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
.8.	Problems at the Treatment Works Attributed to Waste Discharged by the upsets, interference) at the treatment works in the past three years?	e SIU. Has the SIU caused or contributed to any problems (e.
	Yes X No If yes, describe each episode.	
CR/	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICAT	TED PIPELINE:
9.	RCRA Waste. Does the treatment works receive or has it in the past three ye pipe?  Yes X No (go to F.12.)	ears received RCRA hazardous waste by truck, rail, or dedicate
0.	Waste Transport. Method by which RCRA waste is received (check all that	
0.	TruckRailDedicated Pipe	арріу).
11.	Waste Description. Give EPA hazardous waste number and amount (volume	ne or mass, specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
RC	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORREC	CTIVE ACTION
AST	TEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
12.	Remediation Waste. Does the treatment works currently (or has it been noti	ified that it will) receive waste from remedial activities?
	Yes (complete F.13 through F.15.) X No	med that it willy receive waste non-remedial activities:
	10	
	Provide a list of sites and the requested information (F.13 - F.15.) for each cu	irrent and future site.
13.	Waste Origin. Describe the site and type of facility at which the CERCLA/RO	CRA/or other remedial waste originates (or is expected to
	originate in the next five years).	Store of other remedial waste originates (or is expected to
14.	Pollutante Liet the hazardous constituents that are received (or are expected	d to see in ad . Desirate data as universe and assessment for its
17.	Pollutants. List the hazardous constituents that are received (or are expecte known. (Attach additional sheets if necessary).	ed to received). Include data on volume and concentration, if
15.	Waste Treatment.	
	a. Is this waste treated (or will it be treated) prior to entering the treatment	t works?
	Yes No	· Mono
	If yes, describe the treatment (provide information about the removal et	efficiency):
	b. Is the discharge (or will the discharge be) continuous or intermittent?	
		ant describe disabassa subudula
		ent, describe discharge schedule.
	FND OF PART F	
	END OF PART F REFER TO THE APPLICATION OVERVIEW TO DETER!	

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

SU	PPLEMENTA	AL APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
GEN	IERAL INFORMA	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
F.1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
F.2.	Number of Significan	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial to the treatment works.
		ion-categorical SIUs. 19
	b. Number of C	CIUs. 22
SIGN	JIEICANT INDUST	TRIAL USER INFORMATION:
		nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
the in	formation requested t	or each SIU.
F.3.	Significant Industri	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	necessary.	
	Name:	Global Metal Finishing, Inc.
	Mailing Address:	3646 Aerial Way Dr., SW
		Roanoke, VA 24015
F.4.	Industrial Processe	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
		dition of protective coatings
F.5.	Principal Product(s	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):	Protective coatings on aluminum parts
	Raw material(s):	Matele NoOll Nitrie Acid Sulfavio Acid Nickel Indon
	rtaw material(s).	Metals, NaOH, Nitric Acid, Sulfuric Acid, Nickel Isotope, and Polymers
F.6.	Flow Rate.	
	<ul> <li>a. Process was day (gpd) and</li> </ul>	tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per d whether the discharge is continuous or intermittent.
	110	gpd (continuous or X_intermittent)
	b. Non-process	wastewater flag sate Indicate the
	gallons per d	wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in ay (gpd) and whether the discharge is continuous or intermittent.
	260	gpd (continuous orX intermittent)
F.7.	Protrontment Stand	and Indicate what we call it will be a call
r./.	a. Local limits	ards. Indicate whether the SIU is subject to the following:  X Yes No
		retreatment standards X Yes No
		al pretreatment standards, which category and subcategory?
	40 CFR Part 433 (Me	tal Finishing)

Vacto	rn Virginia Water Author	rity Water Pollution	Control Blant: VA0025020	1			
veste			Control Plant; VA0025020	OMB Number 2040-0086 as the SIU caused or contributed to any problem			
.8.	upsets, interference) at t			as the Sto caused of contributed to any problem			
	Yes X No	o If yes	, describe each episode.				
CR/	HAZARDOUS WAST	E RECEIVED BY T	TRUCK, RAIL, OR DEDICATED PIPE	ELINE:			
7.4				A CONTRACTOR OF THE PARTY OF TH			
.9.		treatment works rec	eive or has it in the past three years recei	ived RCRA hazardous waste by truck, rail, or de			
	pipe?						
	Yes	X No (go to F.12	2.)				
.10.	Waste Transport. Meth	nod by which RCRA v	waste is received (check all that apply):				
	Truck	Rail	Dedicated Pipe				
.11.	Waste Description Gir	ve FPA hazardous w	aste number and amount (volume or mass	e enacify unite)			
	EPA Hazardous Waste I	Number	Amount	<u>Units</u>			
ERC	LA (SUPERFUND) WA	ASTEWATER, RCI	RA REMEDIATION/CORRECTIVE A	CTION			
VAS		R REMEDIAL ACT					
VAS		R REMEDIAL AC	TIVITY WASTEWATER:				
	EWATER, AND OTHE		TIVITY WASTEWATER:	it will) receive waste from remedial activities?			
	Remediation Waste. D	oes the treatment wo	TIVITY WASTEWATER:  orks currently (or has it been notified that it	it will) receive waste from remedial activities?			
	Remediation Waste. D Yes (complete F.1)	loes the treatment wo	orks currently (or has it been notified that it				
VAS	Remediation Waste. D Yes (complete F.1)	loes the treatment wo	TIVITY WASTEWATER:  orks currently (or has it been notified that it				
.12.	Remediation Waste. D  Yes (complete F.1)  Provide a list of sites and	Does the treatment wo 13 through F.15.) d the requested inform	orks currently (or has it been notified that if  X No mation (F.13 - F.15.) for each current and	future site.			
.12.	Remediation Waste. D Yes (complete F.1) Provide a list of sites and Waste Origin. Describe	Does the treatment wo 13 through F.15.) d the requested inform the the site and type of	orks currently (or has it been notified that if  X No mation (F.13 - F.15.) for each current and				
.12.	Remediation Waste. D  Yes (complete F.1)  Provide a list of sites and	Does the treatment wo 13 through F.15.) d the requested inform the the site and type of	orks currently (or has it been notified that if  X No mation (F.13 - F.15.) for each current and	future site.			
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.12.	Remediation Waste. D Yes (complete F.1 Provide a list of sites and Waste Origin. Describe originate in the next five	ooes the treatment wo 13 through F.15.) d the requested inform e the site and type of tyears).	rks currently (or has it been notified that if  X No mation (F.13 - F.15.) for each current and facility at which the CERCLA/RCRA/or other that are received (or are expected to receive	future site.			
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Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

SOLID STREET	TE INDITETRIAL	HISED DISCHARGES AND DEPAYOFDELA WASTES
F		USER DISCHARGES AND RCRA/CERCLA WASTES discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Pa
GEN	ERAL INFORMAT	ION:
F.1.	Pretreatment Progra	m. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No '
	A les	
F.2.	Number of Significan	Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
		ischarge to the treatment works.
	a. Number of no	on-categorical SIUs. 19
	b. Number of Cl	Us22
0101	UFICANT INDUST	
		RIAL USER INFORMATION: ation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
	de the information req	
F.3.	Significant Industria pages as necessary.	I User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessary.	
	Name:	General Electric Drives and Controls, Incorporated
		Schedul Electric Strees and Controls, incorporated
	Mailing Address:	1501 Roanoke Boulevard
		Roanoke, VA 24153
		Roanoke, VA 24153
F.4.	Industrial Processes	
F.4.		s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.4.		
	Metal Finishing, Electrical Principal Product(s)	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.4. F.5.	Metal Finishing, Ele	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some
	Metal Finishing, Electric Principal Product(s) discharge.	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Metal Finishing, Electrical Principal Product(s)	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some
	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment
	Metal Finishing, Electric Principal Product(s) discharge.	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,  corrosion inhibitors, oils and lubricants
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,  corrosion inhibitors, oils and lubricants
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  21,100	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,  corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _Xintermittent)
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment, and Some  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gall	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or _X_intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment, and Some  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gal 20,000	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)
F.5.	Metal Finishing, Electric Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gal 20,000	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.  gpd ( continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gall 20,000  Pretreatment Standa a. Local limits	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,  corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:  No
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gall 20,000  Pretreatment Standa a. Local limits	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids, corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.  gpd ( continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 21,100  b. Non-process system in gal 20,000  Pretreatment Standa a. Local limits b. Categorical p	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ctrical Equipment, and Some  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Equipment  Sheet Metal, copper, zinc, aluminum, trace metals, phoshpatizing, alkaline cleaners, acids,  corrosion inhibitors, oils and lubricants  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection ons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:  No

Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any property.  S. Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has the SIU caused or contributed to any property.  S. Problems at the Treatment Works in the past three years?  Yes X No If yes, describe each episode.  S. RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  S. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  S. 10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  S. 11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION NASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:
yes X No If yes, describe each episode.  RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
Pes X No If yes, describe each episode.  CRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
PROBLEM STERECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply): Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply): Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply): Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply): TruckRailDedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste NumberAmount
10. Waste Transport. Method by which RCRA waste is received (check all that apply): Truck
Truck Pail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
Truck Pail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
I1. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number  Amount  Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION
ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:
12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities
Yes (complete F.13 through F.15.)
Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.
13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expect
originate in the next five years).
the same of the sa
Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concent known. (Attach additional sheets if necessary).
known. (Attach additional sheets if necessary).
known. (Attach additional sheets if necessary).  15. Waste Treatment.
known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?
known. (Attach additional sheets if necessary).  15. Waste Treatment.
known. (Attach additional sheets if necessary).  5. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?
known. (Attach additional sheets if necessary).    Solution
known. (Attach additional sheets if necessary).    Solution
known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?
known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?
known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?
known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):

SUI	PPLEMENTA	L APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All tres	atment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
	ERAL INFORMAT	
F.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial
100		to the treatment works.  on-categorical SIUs.  19
	b. Number of C	
		RIAL USER INFORMATION: nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
	formation requested f	
F.3.	Significant Industri	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	necessary.	in Oser Information. Provide the name and address of each 510 discharging to the treatment works. Submit additional pages as
	Name:	Graham White Manufacturing Company
	Mailing Address:	4242 Colorado Street
	Mailing Address:	1242 Colorado Street Salem, VA 24153
-		Garan, FA 24100
F.4.	Industrial Processe	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Aluminum anondizi	ng
F.5.	Principal Product(s	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):	Air Dryers, Pneumatic and Electropneumatic Valves, Air Gauges, and Brake Components
	Raw material(s):	Cast iron, bronze, aluminum, steel, and stainless steel
F.6.	Flow Rate.	
		tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per
	3,000	d whether the discharge is continuous or intermittent.  gpd (X_continuous orintermittent)
	b. Non-process	wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in ay (gpd) and whether the discharge is continuous or intermittent.
188	3,800	gpd (_X_continuous orintermittent)
F.7.	Pretreatment Stand	ards. Indicate whether the SIU is subject to the following:
Tieffee	a. Local limits	
500 P	b. Categorical p	pretreatment standards X Yes No
1		al pretreatment standards, which category and subcategory?
	40 CFR 433 (Metal F	inishing)

Mostor Vissinia Meter Authorit Meter		Form Approved 1/14/99
western virginia water Authority water	Pollution Control Plant; VA0025020	OMB Number 2040-0086
	s Attributed to Waste Discharged by the SIU. Has	
YesXNo	If yes, describe each episode.	
RCRA HAZARDOUS WASTE RECEIV	/ED BY TRUCK, RAIL, OR DEDICATED PIPE	LINE:
pipe?	works receive or has it in the past three years receive	ed RCRA hazardous waste by truck, rail, or dedicate
Yes X No (	go to F.12.)	
F.10. Waste Transport. Method by which	th RCRA waste is received (check all that apply):	
Rail	Dedicated Pipe	
	zardous waste number and amount (volume or mass,	specify units).
EPA Hazardous Waste Number	Amount	<u>Units</u>
THE REAL PROPERTY.	The second water of the first	
CEDCI A (SUDEDELIND) WASTEWAT	TED DODA DEMEDIATIONICODDECTIVE AC	TION
WASTEWATER, AND OTHER REMEI	TER, RCRA REMEDIATION/CORRECTIVE AC DIAL ACTIVITY WASTEWATER:	IION
	F.15.) X No sted information (F.13 - F.15.) for each current and fund type of facility at which the CERCLA/RCRA/or other	
Approximately and the		
F.14. Pollutants. List the hazardous con known. (Attach additional sheets if	istituents that are received (or are expected to receive necessary).	ed). Include data on volume and concentration, if
known. (Attach additional sheets if		ed). Include data on volume and concentration, if
known. (Attach additional sheets if	necessary).	ed). Include data on volume and concentration, if
known. (Attach additional sheets if		ed). Include data on volume and concentration, if
known. (Attach additional sheets if  F.15. Waste Treatment.  a. Is this waste treated (or will if	necessary).	ed). Include data on volume and concentration, if
known. (Attach additional sheets if  F.15. Waste Treatment.  a. Is this waste treated (or will if	t be treated) prior to entering the treatment works?	ed). Include data on volume and concentration, if
known. (Attach additional sheets if  15. Waste Treatment. a. Is this waste treated (or will if  Yes No  If yes, describe the treatmen	t be treated) prior to entering the treatment works?  It (provide information about the removal efficiency):	
known. (Attach additional sheets if  15. Waste Treatment. a. Is this waste treated (or will if  Yes No  If yes, describe the treatmen	t be treated) prior to entering the treatment works?  It (provide information about the removal efficiency):	

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

SU	PPLEMENTA	L APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All tros	atment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
	ERAL INFORMAT	
F.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
	_ X Tes	
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial
		to the treatment works.  on-categorical SIUs.  19
1	b. Number of C	
		RIAL USER INFORMATION:
	y the following inform formation requested f	lation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide or each SIU.
F.3.	necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	Name:	Koppers Industries Inc.
7	Mailing Address:	4020 Koppers Road
		Salem, VA 24153
F.4.	Industrial Processe	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
		serves Oak and Other Hardwoods Using the Boulton Process
F.5.	Principal Product(s)	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	i imorpai i roduci(s)	and rear materials). Describe and the principal processes and raw materials that affect of contribute to the 510's discharge.
	Principal product(s):	Railroad Ties
	Raw material(s):	Oak and mixed hardwoods and creosote
1		
F.6.	Flow Rate. a. Process was	tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per
		d whether the discharge is continuous or intermittent.
	26,140	gpd (Xcontinuous orintermittent)
	b. Non-process	wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in
		ay (gpd) and whether the discharge is continuous or intermittent.
	3,700	gpd (Xcontinuous or intermittent)
F.7.	Brotrootmont Stand	and a ladicate whether the CIII is subject to the following:
F./.	a. Local limits	ards. Indicate whether the SIU is subject to the following:  X Yes No
		pretreatment standards X Yes No
	16	
	if subject to categoric	al pretreatment standards, which category and subcategory?

este	rn Virginia Water Auth	ority Water Pollution	n Control Plant; VA0025020	OMB	Number 2040-0086
			uted to Waste Discharged by the SIU.		
3.	upsets, interference) a	t the treatment works	s in the past three years?		
	Yes X	No If ye	es, describe each episode.		
	THE RESERVE				A PROPERTY OF
CR/	HAZARDOUS WAS	TE RECEIVED BY	TRUCK, RAIL, OR DEDICATED PIR	PELINE:	
	PCPA Waste Doos to	ho tractment works re	andive on here it in the most three verses	aired DODA barredon	
	pipe?	ne treatment works re	eceive or has it in the past three years rec	elved RCRA nazardous was	ste by truck, rail, or ded
	Yes	X No (go to F.1	12)		
0.	Waste Transport Me	ethod by which RCRA	waste is received (check all that apply):		
	Truck				
		Rail	Dedicated Pipe		
11.			waste number and amount (volume or ma	iss, specify units).	
	EPA Hazardous Waste	e Number	Amount	<u>Units</u>	
			THE RESERVE ASSESSMENT ASSESSMENT		
				ACTION	
RC	LA (SUPERFUND) W	VASTEWATER, RO	CRA REMEDIATION/CORRECTIVE		
RC	LA (SUPERFUND) W	VASTEWATER, RO IER REMEDIAL AC	CRA REMEDIATION/CORRECTIVE / CTIVITY WASTEWATER:	ACTION	
ERC	LA (SUPERFUND) W TEWATER, AND OTH	VASTEWATER, RO HER REMEDIAL AC	CRA REMEDIATION/CORRECTIVE / CTIVITY WASTEWATER:	ACTION	
AS	TEWATER, AND OTH	IER REMEDIAL AC	CTIVITY WASTEWATER:		remedial activities?
AS	Remediation Waste.	Does the treatment w	CTIVITY WASTEWATER: works currently (or has it been notified that		remedial activities?
AST	Remediation Waste.  Yes (complete F	Does the treatment w	CTIVITY WASTEWATER:  works currently (or has it been notified that  X No	t it will) receive waste from r	remedial activities?
IAS	Remediation Waste.  Yes (complete F	Does the treatment w	CTIVITY WASTEWATER: works currently (or has it been notified that	t it will) receive waste from r	remedial activities?
12.	Remediation Waste.  Yes (complete F Provide a list of sites a	Does the treatment w F.13 through F.15.) and the requested info	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an	t it will) receive waste from r	
12.	Remediation Waste.  Yes (complete F Provide a list of sites a	Does the treatment we full the requested info	CTIVITY WASTEWATER:  works currently (or has it been notified that  X No	t it will) receive waste from r	
12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit	Does the treatment we full the requested info	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an	t it will) receive waste from r	
12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit	Does the treatment we full the requested info	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an	t it will) receive waste from r	
12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit	Does the treatment we full the requested info	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an	t it will) receive waste from r	
12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit	Does the treatment we full the requested info	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an	t it will) receive waste from r	
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment w F.13 through F.15.) and the requested info be the site and type of the years).	works currently (or has it been notified that  X No  normation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of	t it will) receive waste from r	ites (or is expected to
12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
112.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
AST	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five	Does the treatment we find the requested information be the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  s that are received (or are expected to received)	t it will) receive waste from r	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the ha known. (Attach addition  Waste Treatment.	Does the treatment we feel the site and type of the years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of the sthat are received (or are expected to receiver).	t it will) receive waste from r d future site. other remedial waste original	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the ha known. (Attach addition  Waste Treatment. a. Is this waste treatment.	Does the treatment we find the requested information to the site and type of the years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current an  of facility at which the CERCLA/RCRA/or of  sthat are received (or are expected to received)	t it will) receive waste from r d future site. other remedial waste original	ites (or is expected to
AST 112. 113.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment. a. Is this waste treatyes	Does the treatment we feel at the stream of the requested information of the stream of	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of sthat are received (or are expected to receasely).	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
AST 12.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment. a. Is this waste treatyes	Does the treatment we feel at the stream of the requested information of the stream of	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of the sthat are received (or are expected to receiver).	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
AST 112. 113.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment. a. Is this waste treatyes	Does the treatment we feel at the stream of the requested information of the stream of	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of sthat are received (or are expected to receasely).	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment. a. Is this waste treatyes	Does the treatment we feel at the stream of the requested information of the stream of	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of sthat are received (or are expected to receasely).	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment. a. Is this waste treatyes	Does the treatment we feel at the stream of the requested information of the stream of	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of sthat are received (or are expected to receasely).	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a  Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment.  a. Is this waste treaty yes If yes, describe the	Does the treatment we find the requested information be the site and type one years).  The provided and the requested information of the site and type one years).  The provided area of the provided and the requested information of the site and type one years).	works currently (or has it been notified that  X No  remation (F.13 - F.15.) for each current and of facility at which the CERCLA/RCRA/or of sthat are received (or are expected to recearly).  ted) prior to entering the treatment works? e information about the removal efficiency	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a  Waste Origin. Descrit originate in the next five  Pollutants. List the ha known. (Attach addition  Waste Treatment. a. Is this waste treaty Yes If yes, describe to	Does the treatment we find the requested information the requested information to the site and type of the site and type of the site and type of the years).  The requested information to the requested information to the requested information to the site and type of the years).	works currently (or has it been notified that	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to
12. 13.	Remediation Waste. Yes (complete F Provide a list of sites a  Waste Origin. Descrit originate in the next five  Pollutants. List the haknown. (Attach addition  Waste Treatment.  a. Is this waste treaty yes If yes, describe the	Does the treatment we find the requested information the requested information to the site and type of the site and type of the site and type of the years).  The requested information to the requested information to the requested information to the site and type of the years).	works currently (or has it been notified that	t it will) receive waste from red future site.  other remedial waste original eived). Include data on volu	ites (or is expected to

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

SU	PPLEMENT	AL APPLICATION INFORMATION
PAR	T F. INDUSTRIA	AL USER DISCHARGES AND RCRA/CERCLA WASTES
All trea	atment works receiving	ng discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
GEN	ERAL INFORMA	ATION:
F.1.	Pretreatment Pro	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No No
F.2.		
F.2.		ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial per to the treatment works.
	a. Number of	non-categorical SIUs. 19
	b. Number of	CIUs. <u>22</u>
SIGN	NIFICANT INDUS	STRIAL USER INFORMATION:
Suppl	y the following info	rmation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
the in	formation requested	l for each SIU.
F.3.		rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
25	necessary.	
	Name:	Lebanon Seaboard Corporation
	rume.	Lebation Geaboard Golporation
	Mailing Address:	525 Branch Drive
		Salem, VA 24153
100		
F.4.	Industrial Process	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
12	Biotechnology	
F.5.		
1	Principal Product	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	District W	
	Principal product(s	Iron Chelation with Citric Acid for Plant Care
	Raw material(s):	Iron, Nickel, Zinc, Manganese, NaOH, Phosphorus, Sodium Sulfite, Sodium Polyphosphate,
		Dimethyl Dihydrogen Diphosphate, Citric Acid Chlorine
F.6.	Flow Rate.	
		astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per and whether the discharge is continuous or intermittent.
	5,120	
3.6		
		ss wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in day (gpd) and whether the discharge is continuous or intermittent.
	60	gpd (continuous orX intermittent)
F.7.	Pretreatment Star	dards. Indicate whether the SIU is subject to the following:
	a. Local limits	2007 (1997 - 1997 - 1997 <del>- 19</del> 1997 - <del>19 -</del> 100 (1997 - 1997 -
	b. Categorica	I pretreatment standards X Yes No
		rical pretreatment standards, which category and subcategory?
	40 CFR 433	

	NAME AND PERMIT NUMBER:		Form Approved 1/14/99
		Pollution Control Plant; VA0025020	OMB Number 2040-0086  SIU. Has the SIU caused or contributed to any problems (e
		ent works in the past three years?	Sio. Has the Sio caused or contributed to any problems (e
	Yes X No	If yes, describe each episode.	
DAUA	ZADDOUG WASTE DEGEN	(ED DY TRUCK DAIL OF DEDICATE	
ка па	ZARDOUS WASTE RECEN	/ED BY TRUCK, RAIL, OR DEDICATE	ED PIPELINE:
. RC	RA Waste. Does the treatment	works receive or has it in the past three year	ars received RCRA hazardous waste by truck, rail, or dedica
pipe	e?		
	Yes X No	go to F.12.)	
0. Wa	aste Transport. Method by which	th RCRA waste is received (check all that ap	oply):
-	Truck Rail	Dedicated Pipe	
1. Wa	aste Description. Give EPA haz	zardous waste number and amount (volume	or mass, specify units).
EP	A Hazardous Waste Number	Amount	<u>Units</u>
		<u> </u>	
		TER, RCRA REMEDIATION/CORRECT	TIVE ACTION
ASTEW	ATER, AND OTHER REMEI	DIAL ACTIVITY WASTEWATER:	
	Yes (complete F.13 through	F.15.) X No	ed that it will) receive waste from remedial activities?
Pro	Yes (complete F.13 through ovide a list of sites and the reque	F.15.) X No sted information (F.13 - F.15.) for each current	
Pro	Yes (complete F.13 through ovide a list of sites and the reque aste Origin. Describe the site ar	F.15.) X No sted information (F.13 - F.15.) for each current	ent and future site.
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the reque aste Origin. Describe the site arginate in the next five years).	F.15.)  X No sted information (F.13 - F.15.) for each currend type of facility at which the CERCLA/RCF	ent and future site.  RA/or other remedial waste originates (or is expected to
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the reque aste Origin. Describe the site arginate in the next five years).	F.15.)  X No sted information (F.13 - F.15.) for each currend type of facility at which the CERCLA/RCF	ent and future site.  RA/or other remedial waste originates (or is expected to
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the reque aste Origin. Describe the site arginate in the next five years).  Illutants. List the hazardous conown. (Attach additional sheets if	F.15.)  X No sted information (F.13 - F.15.) for each current type of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requestate Origin. Describe the site arginate in the next five years).  Blutants, List the hazardous conown. (Attach additional sheets if the site of the	F.15.)  X No sted information (F.13 - F.15.) for each currend type of facility at which the CERCLA/RCF	ent and future site.  RA/or other remedial waste originates (or is expected to to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requests the site and the requests the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if the site and sites the sites are sites and sites are sites are sites and sites are	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requests the site and the requests the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if the site and sites the sites are sites and sites are sites are sites and sites are	F.15.)  X No sted information (F.13 - F.15.) for each current type of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requests the site and the requests the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if the site and sites the sites are sites and sites are sites are sites and sites are	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requests the site and the requests the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if the site and sites the sites are sites and sites are sites are sites and sites are	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requested origin. Describe the site arginate in the next five years).  Illutants. List the hazardous comown. (Attach additional sheets if this waste treated (or will it yes No No If yes, describe the treatmen	sted information (F.13 - F.15.) for each current dropped of facility at which the CERCLA/RCF distituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro  3. Wa orig  4. Pol kno	Yes (complete F.13 through ovide a list of sites and the requestate Origin. Describe the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if when the site of the site	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if  works?  ciency):
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requested origin. Describe the site arginate in the next five years).  Illutants. List the hazardous comown. (Attach additional sheets if this waste treated (or will it yes No No If yes, describe the treatmen	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if
Pro 3. Wa orig	Yes (complete F.13 through ovide a list of sites and the requestate Origin. Describe the site arginate in the next five years).  Illutants. List the hazardous contown. (Attach additional sheets if when the site of the site	sted information (F.13 - F.15.) for each current drype of facility at which the CERCLA/RCF estituents that are received (or are expected necessary).	ent and future site.  RA/or other remedial waste originates (or is expected to  to received). Include data on volume and concentration, if  works?  ciency):

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

SU	PPLEMENTA	AL APPLICATION INFORMATION
PAR	T F. INDUSTRIAL	USER DISCHARGES AND RCRA/CERCLA WASTES
All trea	atment works receiving	discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.
	ERAL INFORMAT	
F.1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No No
F.2.		nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial to the treatment works.
		non-categorical SIUs. 19
	b. Number of C	CIUs. 22
SIGN	HEICANT INDUST	TRIAL LISED INFORMATION:
		FRIAL USER INFORMATION: nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
	formation requested	
F.3.	Significant Industri necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	Name:	Lewis-Gale Medical Center
	Mailing Address:	4000 Floodin Board
	Mailing Address:	1900 Electric Road Salem, VA 24153
34.5		Saleili, FA 24100
F.4.	Industrial Processe	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
		reas, laboratories, and patient treatment
36		
F.5.	Principal Product(s	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s):	General Medical and Surgical Hospital
	Raw material(s):	N/A
F.6.	Flow Rate.	
		stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per
	65,000	d whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)
1		
	b. Non-process	swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in day (gpd) and whether the discharge is continuous or intermittent.
	33,000	gpd (X continuous or intermittent)
F.7.	Pretreatment Stand	ards. Indicate whether the SIU is subject to the following:
1-8-8	a. Local limits	
	b. Categorical p	pretreatment standards Yes X No
	If subject to categoric	cal pretreatment standards, which category and subcategory?

204	rn Virginia Water Authority West - P. W. C.	nal Dianta Maccasana	Form Approved 1/14/99
este	rn Virginia Water Authority Water Pollution Cont Problems at the Treatment Works Attributed to		OMB Number 2040-0086
3.	upsets, interference) at the treatment works in the	past three years?	as the SiO caused or contributed to any problems
	Yes X No If yes, desc	cribe each episode.	
CR/	HAZARDOUS WASTE RECEIVED BY TRUC	CK, RAIL, OR DEDICATED PIP	ELINE:
		TO THE RESIDENCE OF THE PARTY O	
Э.	RCRA Waste. Does the treatment works receive opipe?	or has it in the past three years rece	eived RCRA hazardous waste by truck, rail, or dedi
	Yes X No (go to F.12.)		
	NO (90 to 1.12.)		
	Wasta Transport Mathed by which DODA		
0.	Waste Transport. Method by which RCRA waste	is received (check all that apply):	
	Rail	Dedicated Pipe	
11.	Waste Description. Give EPA hazardous waste r	number and amount (volume or mas	ss, specify units).
	EPA Hazardous Waste Number	Amount	<u>Units</u>
			5
		ATTENDED TO SELECT	
ERC	LA (SUPERFUND) WASTEWATER, RCRA R	EMEDIATION/CORRECTIVE A	ACTION
AS	EWATER, AND OTHER REMEDIAL ACTIVIT	Y WASTEWATER:	
AS	EWATER, AND OTHER REMEDIAL ACTIVIT	Y WASTEWATER:	
	With the second second	TY WASTEWATER:	it will) receive waste from remedial activities?
	Remediation Waste. Does the treatment works o	Y WASTEWATER: urrently (or has it been notified that	it will) receive waste from remedial activities?
	Remediation Waste. Does the treatment works c  Yes (complete F.13 through F.15.)	ry WASTEWATER:  urrently (or has it been notified that  X No	
12.	Remediation Waste. Does the treatment works o	ry WASTEWATER:  urrently (or has it been notified that  X No	
12.	Provide a list of sites and the requested information	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Remediation Waste. Does the treatment works c  Yes (complete F.13 through F.15.)	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Remediation Waste. Does the treatment works complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Remediation Waste. Does the treatment works complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Remediation Waste. Does the treatment works complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Remediation Waste. Does the treatment works complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facility	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and	I future site.
12.	Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facilit originate in the next five years).	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site.  ther remedial waste originates (or is expected to
12.	Pollutants. List the hazardous constituents that an	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site.  ther remedial waste originates (or is expected to
12.	Provide a list of sites and the requested information  Waste Origin. Describe the site and type of facilit originate in the next five years).	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site. ther remedial waste originates (or is expected to
12.	Pollutants. List the hazardous constituents that an	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site.  ther remedial waste originates (or is expected to
12.	Pollutants. List the hazardous constituents that an	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site.  ther remedial waste originates (or is expected to
	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that alknown. (Attach additional sheets if necessary).	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site. ther remedial waste originates (or is expected to
13.	Pollutants. List the hazardous constituents that an	urrently (or has it been notified that  X No n (F.13 - F.15.) for each current and y at which the CERCLA/RCRA/or of	I future site. ther remedial waste originates (or is expected to
13.	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that alknown. (Attach additional sheets if necessary).	urrently (or has it been notified that	I future site. ther remedial waste originates (or is expected to
13.	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that all known. (Attach additional sheets if necessary).  Waste Treatment.	urrently (or has it been notified that	I future site. ther remedial waste originates (or is expected to
13.	Pollutants. List the hazardous constituents that at known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price yes No	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that alknown. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price.	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Pollutants. List the hazardous constituents that at known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price yes No	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Pollutants. List the hazardous constituents that at known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price yes No	urrently (or has it been notified that	ther remedial waste originates (or is expected to
12.	Pollutants. List the hazardous constituents that at known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price yes No	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Pollutants. List the hazardous constituents that at known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that asknown. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) pringles. No  If yes, describe the treatment (provide information).	urrently (or has it been notified that	ther remedial waste originates (or is expected to
13.	Remediation Waste. Does the treatment works of Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of facility originate in the next five years).  Pollutants. List the hazardous constituents that asknown. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) price Yes No  If yes, describe the treatment (provide informations).	urrently (or has it been notified that	ther remedial waste originates (or is expected to

_		Authority Water Pollution Control Plant; VA0025020 OMB Number 2040-0086  TAL APPLICATION INFORMATION
1 1 10		AL USER DISCHARGES AND RCRA/CERCLA WASTES
	ERAL INFORM	ing discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F.  ATION:
F.1.	Pretreatment Pro	ogram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
F.2.		cant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial tree to the treatment works.
		of non-categorical SIUs. 19
	b. Number of	of CIUs. 22
SIGN	VIEICANT INDII	STRIAL USER INFORMATION:
Suppl	ly the following info	ormation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide
the in	formation requeste	d for each SIU.
F.3.	Significant Indus necessary.	strial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as
	Name:	Maple Leaf Bakery, Incorporated
	Mailing Address:	1955 Blue Hills Drive
1		Roanoke, VA 24012
F.4.	Industrial Proces Commercial Bak	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Commercial Dak	1,7,00 2001
F.5.	Principal Produc	t(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.
	Principal product(s	s): Baked Goods
	Raw material(s):	Flour, food/vegetable oils, seeds, sugar, and honey
F.6.	Flow Rate.	
48		vastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per and whether the discharge is continuous or intermittent.
	36,50	
	b. Non-proce gallons pe	ess wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in er day (gpd) and whether the discharge is continuous or intermittent.
	8,000	gpd (_X_continuous or intermittent)
F.7.	Protroatment Sta	ndarde. Indicate whether the CIII is subject to the fallowing.
r./.	a. Local limit	ndards. Indicate whether the SIU is subject to the following:  X Yes No
		al pretreatment standards  Yes  X  No
	If subject to catego	orical pretreatment standards, which category and subcategory?

este			Control Plant; VA0025020	OMB Number 2040-0086
3.	Problems at the Treat	ment Works Attribu	in the past three years?	Has the SIU caused or contributed to any problems
	Yes X		s, describe each episode.	
	Too A	NO III yes	s, describe each episode.	
	3/1/2			
:R/	HAZARDOUS WAS	TE RECEIVED BY	TRUCK, RAIL, OR DEDICATED P	IPELINE:
		TE RECEIVED DI	THOOK, HAIL, ON DEDICATED T	
).	RCRA Waste. Does th	ne treatment works re	eceive or has it in the past three years re	ceived RCRA hazardous waste by truck, rail, or dedi
	pipe?			
	Yes	X No (go to F.1	12.)	
0.	Waste Transport. Me	thod by which RCRA	waste is received (check all that apply):	
	Truck	Rail	Dedicated Pipe	
	ALCOHOL: NO	Alter State of the		
1.	Waste Description G	ive FPA hazardous v	waste number and amount (volume or m	ass energy unite)
	EPA Hazardous Waste	Number	Amount	<u>Units</u>
			CONTRACTOR OF THE STATE OF THE	
_		PROPERTY AND ADDRESS OF THE PARTY OF THE PAR		ACTION
ERC	CLA (SUPERFUND) W	ASTEWATER, RC	RA REMEDIATION/CORRECTIVE	ACTION
			CRA REMEDIATION/CORRECTIVE CTIVITY WASTEWATER:	ACTION
				Action
AS	TEWATER, AND OTH	ER REMEDIAL AC	CTIVITY WASTEWATER:	at it will) receive waste from remedial activities?
AS	Remediation Waste.	Does the treatment w	CTIVITY WASTEWATER:	
AS	Remediation Waste. I	Does the treatment w .13 through F.15.)	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?
/AS	Remediation Waste. I	Does the treatment w .13 through F.15.)	vorks currently (or has it been notified that	at it will) receive waste from remedial activities?
12.	Remediation Waste. I  Yes (complete F  Provide a list of sites an	Does the treatment w .13 through F.15.) and the requested infor	vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current a	at it will) receive waste from remedial activities?
12.	Remediation Waste. I  Yes (complete F  Provide a list of sites an	Does the treatment w .13 through F.15.) and the requested information on the site and type of	vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current a	at it will) receive waste from remedial activities?
12.	Remediation Waste. I Yes (complete F Provide a list of sites ar Waste Origin. Describ	Does the treatment w .13 through F.15.) and the requested information on the site and type of	vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current a	at it will) receive waste from remedial activities?
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12.	Remediation Waste. I Yes (complete F Provide a list of sites ar Waste Origin. Describ	Does the treatment w .13 through F.15.) and the requested information on the site and type of	vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current a	at it will) receive waste from remedial activities?
12.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested information of the site and type of e years).	vorks currently (or has it been notified theXNo rmation (F.13 - F.15.) for each current a f facility at which the CERCLA/RCRA/or	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
12.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
12.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?
12.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
12. 13.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
12. 13.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
12. 13.	Pollutants. List the haknown. (Attach addition	Does the treatment w .13 through F.15.) and the requested inform the site and type of the years).  It is a site and type of the years in years in the years in th	vorks currently (or has it been notified the	at it will) receive waste from remedial activities?  Ind future site.  other remedial waste originates (or is expected to expected). Include data on volume and concentration,
12. 13.	Remediation Waste. I Yes (complete F Provide a list of sites an Waste Origin. Describ originate in the next five  Pollutants. List the ha known. (Attach addition  Waste Treatment. a. Is this waste treatment.	Does the treatment want of the requested information of the site and type of the years).	vorks currently (or has it been notified theXNo rmation (F.13 - F.15.) for each current a f facility at which the CERCLA/RCRA/or that are received (or are expected to rerry).	at it will) receive waste from remedial activities?  Ind future site.  other remedial waste originates (or is expected to expected). Include data on volume and concentration,
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Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

GLI	IERAL INFORMAT	TION.	10000
	IERAL INI ORINA	HON.	
F.1.	Pretreatment Prog	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?	
	X Yes	No No	
- 2			
F.2.		ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.	
	a. Number of r	non-categorical SIUs. 19	
	b. Number of 0	CIUs	
SIGI	NIFICANT INDUS	TRIAL USER INFORMATION:	
Supp	ly the following inform	mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 ar	ıd
		quested for each SIU.	
F.3.	Significant Industr	rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit addition	al
	pages as necessary		
	Name:	Medaca Sasuribul ask Incorporated	
	Name.	Medeco Security Lock, Incorporated	
	Mailing Address:	3625 Alleghany Drive	
		Salem, VA 24153	
F.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	
F.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  plating, and Spray Painting	
F.4. F.5.	Deburring, Electro		
	Deburring, Electro	plating, and Spray Painting	
	Principal Product(s discharge.	plating, and Spray Painting s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's	
	Deburring, Electrop	plating, and Spray Painting s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's	
	Principal Product(s discharge.  Principal product(s):	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks	
	Principal Product(s discharge.	plating, and Spray Painting s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's	
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate.	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies	
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in ga	llons
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies	llons
F.5.	Principal Product(s):  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 4,120	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gad and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)	
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 4,120  b. Non-process	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gad and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection	
F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus) 4,120  b. Non-process	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gad and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)	
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F.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 4,120  b. Non-process system in ga 2,560	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gard) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.	
F.6.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 4,120  b. Non-process system in ga 2,560	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gard) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)	
F.6.	Principal Product(s):  Principal Product(s):  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 4,120  b. Non-process system in ga 2,560  Pretreatment Standa. a. Local limits	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gail and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:	
F.6.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 4,120  b. Non-process system in ga 2,560  Pretreatment Standa. Local limits b. Categorical product(s):	s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Security Locks  Brass, Steel, Zinc, Acids, Alkalies  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gad and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:  _X_Yes No	

Per X No If yes, describe each episode.    RAHAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:	Problems at the Treatment upsets, interference) at the treatment upsets, interference at the treatment upsets at t	Works Attributed reatment works in If yes, o	d to Waste Discharged by the SIU. He the past three years? describe each episode.	
	Yes X No  CRA HAZARDOUS WASTE RE  RCRA Waste. Does the treat	reatment works in	the past three years? describe each episode.	as the SIU caused or contributed to any problems
Yes X No   If yes, describe each episode.	Yes X No  CRA HAZARDOUS WASTE RE  RCRA Waste. Does the treat	If yes, o	describe each episode.	
RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  Yes X No (go to F.12.)  Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  RCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.)  X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  Waste Origin. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	RA HAZARDOUS WASTE RE			
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			TOOK, INNE, OR DEDICATED FIF	ELINE:
		itment works recei	ive or has it in the past three years rece	ived RCRA hazardous waste by truck, rail, or dec
Waste Transport. Method by which RCRA waste is received (check all that apply):				
Truck Rail Dedicated Pipe  1. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units    Comparison	Yes X	No (go to F.12.)		
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Truck Rail Dedicated Pipe  1. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units    Comparison	0. Waste Transport. Method by	y which RCRA wa	aste is received (check all that apply):	
1. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number  Amount  Units  PAMOUNT  PAMOUNT  PAROLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION  ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.)  No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes  No  If yes, describe the treatment (provide information about the removal efficiency):				
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a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):				ived). Include data on volume and concentration,
a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):				ived). Include data on volume and concentration
a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):				ived). Include data on volume and concentration,
a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):				ived). Include data on volume and concentration,
YesNo If yes, describe the treatment (provide information about the removal efficiency):				ived). Include data on volume and concentration
If yes, describe the treatment (provide information about the removal efficiency):	known. (Attach additional she			ived). Include data on volume and concentration,
	known. (Attach additional she	eets if necessary).		ived). Include data on volume and concentration,
	5. Waste Treatment. a. Is this waste treated (or	eets if necessary).		ived). Include data on volume and concentration,
b. Is the discharge (or will the discharge be) continuous or intermittent?	5. Waste Treatment. a. Is this waste treated (orYes	eets if necessary).  or will it be treated)  _No	prior to entering the treatment works?	
b. Is the discharge (or will the discharge be) continuous or intermittent?	5. Waste Treatment. a. Is this waste treated (or Yes	eets if necessary).  or will it be treated)  _No	prior to entering the treatment works?	
b. Is the discharge (or will the discharge be) continuous or intermittent?	5. Waste Treatment. a. Is this waste treated (or Yes	eets if necessary).  or will it be treated)  _No	prior to entering the treatment works?	
b. Is the discharge (or will the discharge be) continuous or intermittent?	5. Waste Treatment. a. Is this waste treated (or Yes	eets if necessary).  or will it be treated)  _No	prior to entering the treatment works?	
	5. Waste Treatment. a. Is this waste treated (or Yes If yes, describe the treatment)	or will it be treated) No atment (provide in	prior to entering the treatment works?  formation about the removal efficiency)	
Continuous Intermittent If intermittent, describe discharge schedule.	5. Waste Treatment. a. Is this waste treated (or Yes If yes, describe the treatment)	or will it be treated) No atment (provide in	prior to entering the treatment works?  formation about the removal efficiency)	

END OF PART F.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

### SUPPLEMENTAL APPLICATION INFORMATION

### PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Part F. GENERAL INFORMATION: Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? X Yes F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. Number of non-categorical SIUs. 19 b. Number of CIUs. 22 SIGNIFICANT INDUSTRIAL USER INFORMATION: Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as F.3. necessary. Name: Metalsa Roanoke, Inc. Mailing Address: 184 Vista Drive Roanoke, VA 24019 F.4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. **Powder Coating** F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. Principal product(s): Steel frame rails for metal trucks Raw material(s): Steel, chemical pretreatment compounds & powder coating. F.6 Flow Rate. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. 45,700 gpd (\_\_\_\_continuous or X intermittent) Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in b. gallons per day (gpd) and whether the discharge is continuous or intermittent. 4,900 gpd (\_\_\_\_continuous or \_\_\_\_intermittent) F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following: Local limits X Yes Categorical pretreatment standards b. X Yes No If subject to categorical pretreatment standards, which category and subcategory? 40 CFR 433 (Metal Finishing)

Vester						Form Approved 1/14/99	
	n Virginia Water Author	rity Water Pollution	Control Plant; V	A0025020		OMB Number 2040-0086	3
.8.					as the SIU caused	or contributed to any proble	ems (e
.0.	upsets, interference) at						
	YesX_N	io ir yes	s, describe each e	pisode.			
					Maria de la companya del companya de la companya del companya de la companya de l		
						V R CONTRACTOR	
RCRA	HAZARDOUS WAST	E RECEIVED BY	TRUCK, RAIL,	OR DEDICATED PIP	ELINE:		No.
.9.	RCRA Waste. Does the pipe?	e treatment works re	ceive or has it in th	ne past three years rece	eived RCRA hazard	ous waste by truck, rail, or	dedica
		X No (go to F.1	2)				
		X No (go to 1	-/				
.10.	Waste Transport. Meth	hod by which RCRA	waste is received	(check all that apply):			
	Truck	Rail		ted Pipe			
		raii	Dedica	iled ripe			
.11.	Waste Description. Gi	ive FPA hazardous v	vaste number and	amount (volume or may	es enecify unite)		
	EPA Hazardous Waste		Amoun		Units		
	LI A Hazardous Waste	Number	Amoun		Onits		
			B. LAGET				
					1 2 2 2		
			The second		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
					No. of Contract		
	LA (SUPERFUND) W				ACTION		
		ED DEMEDIAL AC	TIMITY WASTE	MATED.			
VASI	EWATER, AND OTHE	ER REMEDIAL AC	TIVITY WASTE	WATER:			
					3 300		
	Remediation Waste. D	Does the treatment w	orks currently (or h	nas it been notified that	it will) receive waste	e from remedial activities?	
	Remediation Waste. D	Does the treatment w	orks currently (or h	nas it been notified that		e from remedial activities?	
	Remediation Waste. D	Does the treatment w	orks currently (or h	nas it been notified that		e from remedial activities?	
F.12.	Remediation Waste. D Yes (complete F. Provide a list of sites and	Does the treatment w .13 through F.15.) and the requested infor	rorks currently (or h	No  5.) for each current and	I future site.		
F.12.	Remediation Waste. D Yes (complete F. Provide a list of sites and	Does the treatment w .13 through F.15.) and the requested infor e the site and type of	rorks currently (or h	No  5.) for each current and	I future site.	e from remedial activities?	to
12.	Yes (complete F.  Provide a list of sites an  Waste Origin. Describe	Does the treatment w .13 through F.15.) and the requested infor e the site and type of	rorks currently (or h	No  5.) for each current and	I future site.		to
12.	Yes (complete F.  Provide a list of sites an  Waste Origin. Describe	Does the treatment w .13 through F.15.) and the requested infor e the site and type of	rorks currently (or h	No  5.) for each current and	I future site.		to
12.	Yes (complete F.  Provide a list of sites an  Waste Origin. Describe	Does the treatment w .13 through F.15.) and the requested infor e the site and type of	rorks currently (or h	No  5.) for each current and	I future site.		to
F.12.	Yes (complete F.  Provide a list of sites an  Waste Origin. Describe	Does the treatment w .13 through F.15.) and the requested infor e the site and type of	rorks currently (or h	No  5.) for each current and	I future site.		to
·.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informethe the site and type of eyears).	rmation (F.13 - F.1	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informe the site and type of eyears).	rmation (F.13 - F.1  f facility at which the	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste		
·.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informe the site and type of eyears).	rmation (F.13 - F.1  f facility at which the	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
·.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informe the site and type of eyears).	rmation (F.13 - F.1  f facility at which the	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
F.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informe the site and type of eyears).	rmation (F.13 - F.1  f facility at which the	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
=.12. =.13. =.14.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment was 13 through F.15.) and the requested informe the site and type of eyears).	rmation (F.13 - F.1  f facility at which the	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
.13. .14.	Yes (complete F. Provide a list of sites and Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.	Does the treatment w. 13 through F.15.) Ind the requested informethe the site and type of expears).  It is a site and type of expears in the site and type of	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or o	I future site. ther remedial waste	e originates (or is expected	
.13.	Yes (complete F. Provide a list of sites and Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.	Does the treatment want of the requested informed the site and type of expears).	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or of  (or are expected to rece	I future site. ther remedial waste	e originates (or is expected	
.13.	Pollutants. List the haz known. (Attach addition  Waste Treatment.  a. Is this waste treat  Yes (complete F.  Provide a list of sites and  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years in years in the years in y	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No 5.) for each current and ne CERCLA/RCRA/or of (or are expected to rece	I future site. ther remedial waste	e originates (or is expected	
.13.	Pollutants. List the haz known. (Attach addition  Waste Treatment.  a. Is this waste treat  Yes (complete F.  Provide a list of sites and  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years in years in the years in y	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No  5.) for each current and ne CERCLA/RCRA/or of  (or are expected to rece	I future site. ther remedial waste	e originates (or is expected	
.13.	Pollutants. List the haz known. (Attach addition  Waste Treatment.  a. Is this waste treat  Yes (complete F.  Provide a list of sites and  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years in years in the years in y	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No 5.) for each current and ne CERCLA/RCRA/or of (or are expected to rece	I future site. ther remedial waste	e originates (or is expected	
F.12. F.13. F.14.	Pollutants. List the haz known. (Attach addition  Waste Treatment.  a. Is this waste treat  Yes (complete F.  Provide a list of sites and  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years in years in the years in y	rmation (F.13 - F.1  f facility at which the that are received (ry).	nas it been notified that No 5.) for each current and ne CERCLA/RCRA/or of (or are expected to rece	I future site. ther remedial waste	e originates (or is expected	
F.12. F.13. F.14.	Yes (complete F. Provide a list of sites and Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.  a. Is this waste treat Yes If yes, describe the	Does the treatment would be requested informed the site and type of expears).  The property of the site and type of expears and type of expears are site and type of expears.  The property of the site and type of expears and type of expears are site	rmation (F.13 - F.1  f facility at which the that are received by the prior to entering the information about	nas it been notified that No 5.) for each current and the CERCLA/RCRA/or of (or are expected to rece g the treatment works?	I future site. ther remedial waste	e originates (or is expected	
F.12. F.13. F.14.	Yes (complete F. Provide a list of sites and Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.  a. Is this waste treat Yes If yes, describe the	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years in years in the years in y	rmation (F.13 - F.1  f facility at which the that are received by the prior to entering the information about	nas it been notified that No 5.) for each current and the CERCLA/RCRA/or of (or are expected to rece the treatment works? If the removal efficiency)	I future site. ther remedial waste	e originates (or is expected	
.13.	Yes (complete F. Provide a list of sites and Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.  a. Is this waste treat Yes If yes, describe the	Does the treatment w .13 through F.15.) and the requested inform the the site and type of the years).  Zardous constituents and sheets if necessar  ted (or will it be treated No the treatment (provide	rmation (F.13 - F.1  f facility at which the that are received by the prior to entering the information about	nas it been notified that No 5.) for each current and the CERCLA/RCRA/or of (or are expected to rece g the treatment works?	I future site. ther remedial waste	e originates (or is expected	

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 7550-22.

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

OMB Number 2040-0086

OLIV	IERAL INFORMA	TION
	EIGAL IIII OIGIIA	
.1.	Pretreatment Prog	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
F.2.		ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of t discharge to the treatment works.
		non-categorical SIUs. 19
	b. Number of	
		TRIAL USER INFORMATION:
		rmation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and equested for each SIU.
F.3.	· · · · · · · · · · · · · · · · · · ·	
	pages as necessar	rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional y.
	Name:	Norfolk Southern Railway Company - East End Shops
	Mailing Address:	8 1/2 Street & Campbell Avenue
		Roanoke, VA 24042
F.4.	Industrial Process	
F.4.		ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.4.	Locomotive Repai	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
F.4. F.5.	Locomotive Repa	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Locomotive Repai	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Locomotive Repa	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product discharge.	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product discharge.	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives
	Principal Products discharge.  Principal product(s)  Raw material(s):	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600	Ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  In and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  Instewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
F.5.	Principal Products discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600	Sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  In and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  In a gpd (_X_continuous orintermittent)  In a wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection are collection.
F.5.	Principal Products discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600 b. Non-process system in g 3,340	Sees. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  It and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  Instewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  In gpd (Xcontinuous or intermittent)  In swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  In gpd (Xcontinuous or intermittent)
F.5.	Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was per day (gp 205,600) b. Non-process system in g 3,340  Pretreatment Standard Pretreatment Standard Product (s)	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  instewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  In gpd (Xcontinuous orintermittent)  It is wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  In gpd (Xcontinuous or intermittent)  Indicate whether the SIU is subject to the following:
÷.5.	Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600) b. Non-proces system in g 3,340  Pretreatment Stanta. Local limits	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ir and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  instewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  In gpd (_X_continuous orintermittent)  Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  In gpd (_X_continuous or intermittent)  Indicate whether the SIU is subject to the following:  X_YesNo
F.5.	Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 205,600) b. Non-proces system in g 3,340  Pretreatment Stanta. Local limits	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  If and Maintenance  (s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  Instewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  In gpd (_X_continuous orintermittent)  Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  In gpd (_X_continuous or intermittent)  Indicate whether the SIU is subject to the following:

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Veste	rn Virginia Water Auth					er 2040-0086
.8.	Problems at the Trea upsets, interference) a				is the SIU caused or contributed	to any problems (e.
.0.	Yes X		es, describe each			
	res	NO III y	es, describe each e	episode.		
CR	A HAZARDOUS WAS	TE RECEIVED B	Y TRUCK, RAIL,	OR DEDICATED PIPE	ELINE:	
9.	PCPA Wasta Door	the treatment works			J. DODAL	
	pipe?	the treatment works	receive or has it in t	ne past three years recei	ved RCRA hazardous waste by	truck, rail, or dedica
		X No (go to F	12)			
			,			
10.	Waste Transport. Me	ethod by which RCR	A waste is received	(check all that apply):		
	Truck	Rail		ated Pipe		
	TIGOR	- Itali	Dedice	iteu ripe		
11.	Waste Description	Give FPA hazardous	s waste number and	amount (volume or mass	s specify units)	
•	EPA Hazardous Wast					
	CFA Hazardous Wast	<u>e Number</u>	Amour	Ц	<u>Units</u>	
		9 P				
		44 D				
				ION/CORRECTIVE A	CTION	
IAS	TEWATER, AND OTH	JED DEMEDIAL /	ACTIVITY MAIN OFF	TALATED.		
	Remediation Waste.		works currently (or		will) receive waste from remedi	ial activities?
12.	Remediation Waste.  Yes (complete la Provide a list of sites a	Does the treatment F.13 through F.15.) and the requested inf	works currently (or X formation (F.13 - F.	has it been notified that it  No  15.) for each current and	future site.	
.12.	Remediation Waste.  Yes (complete la Provide a list of sites a	Does the treatment F.13 through F.15.) and the requested infi	works currently (or X formation (F.13 - F.	has it been notified that it  No  15.) for each current and		
.12.	Provide a list of sites a	Does the treatment F.13 through F.15.) and the requested infi	works currently (or X formation (F.13 - F.	has it been notified that it  No  15.) for each current and	future site.	
.12.	Provide a list of sites a	Does the treatment F.13 through F.15.) and the requested infi	works currently (or X formation (F.13 - F.	has it been notified that it  No  15.) for each current and	future site.	
.12.	Provide a list of sites a	Does the treatment F.13 through F.15.) and the requested infi	works currently (or X formation (F.13 - F.	has it been notified that it  No  15.) for each current and	future site.	
.12.	Yes (complete of Provide a list of sites a waste Origin. Description originate in the next five	Does the treatment F.13 through F.15.) and the requested inf tibe the site and type we years).	works currently (or X) formation (F.13 - F.) of facility at which to	has it been notified that itNo 15.) for each current and the CERCLA/RCRA/or other	future site. ner remedial waste originates (or	r is expected to
12.	Pollutants. List the h	Does the treatment F.13 through F.15.) and the requested inf tibe the site and type we years).	works currently (or  X formation (F.13 - F.) of facility at which to	has it been notified that itNo 15.) for each current and the CERCLA/RCRA/or other	future site.	r is expected to
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Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

1. Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program?    X		ERAL INFORMAT	TION:
Number of Significant Industrial Users (SiUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.  a. Number of non-categorical SIUs	.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.  a. Number of non-categorical SIUs. 19    b. Number of CIUs. 22    SIGNIFICANT INDUSTRIAL USER INFORMATION: 12    User Information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and rovide the information requested for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and rovide the information requested for each SIU.  3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.  Name: Norfolk Southern Railway Company - Shaffers Crossing  Mailing Address: 24th Street & Johnson Avenue Roanoke, VA 24042  4. Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Repair, Clean, and Services Locomotives and Rail Cars  Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.  Principal Product(s): Repaired railroad locomotives  Raw material(s): Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  5. Flow Rate.  a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon per day (gpd) and whether the discharge is continuous or intermittent.  41,330 gpd (X continuous or intermittent)  b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.  8,130 gpd (X continuous or intermittent)  7. Pretreatment Standards. Indicate whether the SIU is subject to the following:  a. Local limits X Yes No			
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b. Categorical pretreatment standards Yes X No	.5.	Repair, Clean, and S Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 41,330  b. Non-process system in gal 8,130	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Services Locomotives and Rail Cars  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Repaired railroad locomotives  Lube Oil, Diesel Fuel, Borate Cooling Water, Alkaline Cleaner  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
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Voca				
este	ern Virginia Water Authority Water Pollution Co			OMB Number 2040-0086
8.	Problems at the Treatment Works Attributed upsets, interference) at the treatment works in the treatment works in the treatment works in the treatment works.	to Waste Discharged by the ne past three years?	SIU. Has the SIU caused	d or contributed to any problems (e
		escribe each episode.		
		Market Andrews		
CR/	A HAZARDOUS WASTE RECEIVED BY TR	UCK, RAIL, OR DEDICAT	ED PIPELINE:	
.9.	RCRA Waste. Does the treatment works receiv	e or has it in the past three ye	ears received RCRA hazar	dous waste by truck, rail, or dedicate
	pipe?			
	YesX No (go to F.12.)			
.10.	Waste Transport. Method by which RCRA was	te is received (check all that a	apply):	
	TruckRail	Dedicated Pipe		
.11.	Waste Description. Give EPA hazardous wast	e number and amount (volum	e or mass, specify units).	
	EPA Hazardous Waste Number	Amount	Units	
			the part of the state of	
ERC	LA (SUPERFUND) WASTEWATER, RCRA	REMEDIATION/CORRECT	CTIVE ACTION	
VAST	TEWATER, AND OTHER REMEDIAL ACTIV	/ITY WASTEWATER:		
.12.	Remediation Waste. Does the treatment works		fied that it will) receive was	ste from remedial activities?
.12.	Remediation Waste. Does the treatment works Yes (complete F.13 through F.15.)		fied that it will) receive was	ste from remedial activities?
.12.	Yes (complete F.13 through F.15.)	s currently (or has it been noting		ste from remedial activities?
.12.		s currently (or has it been noting		ste from remedial activities?
	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of face	x No tion (F.13 - F.15.) for each cur	rrent and future site.	
	Yes (complete F.13 through F.15.)	x No tion (F.13 - F.15.) for each cur	rrent and future site.	
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.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of face	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO	rrent and future site.	te originates (or is expected to
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114.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided the site and type of factoriginate in the next five years).	x No  X No  tion (F.13 - F.15.) for each cur  cility at which the CERCLA/RO  t are received (or are expected	RA/or other remedial wast	te originates (or is expected to
114.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided in the provided i	x No tion (F.13 - F.15.) for each cur illity at which the CERCLA/RO t are received (or are expected	rrent and future site.  RA/or other remedial wasted to received). Include date works?	te originates (or is expected to
114.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided the site and type of factoriginate in the next five years).	x No tion (F.13 - F.15.) for each cur illity at which the CERCLA/RO t are received (or are expected	rrent and future site.  RA/or other remedial wasted to received). Include date works?	te originates (or is expected to
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.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided in the provided i	x No tion (F.13 - F.15.) for each cur illity at which the CERCLA/RO t are received (or are expected	rrent and future site.  RA/or other remedial wasted to received). Include date works?	te originates (or is expected to
.13.	Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.  Waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) provided in the provided i	x No tion (F.13 - F.15.) for each cur illity at which the CERCLA/RO t are received (or are expected	rrent and future site.  RA/or other remedial wasted to received). Include date works?	te originates (or is expected to
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FACILITY NAME AND PERMIT NUMBER:
Western Virginia Water Authority Water Pollution Control Plant;
VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

	ERAL INFORMAT	TION:
	Protrootment Prog	
.1.	Fredeathent Frog	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
.2.	Number of Significa	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
	industrial users that	discharge to the treatment works.
	a. Number of r	non-categorical SIUs. 19
	b. Number of 0	CIUs. <u>22</u>
SIGN	NIFICANT INDUST	TRIAL USER INFORMATION:
Supp	ly the following inform	mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
rovie	de the information re	quested for each SIU.
.3.	Significant Industr	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessary	
	Name:	New Millerium Building Contents 110
	Name.	New Millenium Building Systems, LLC
	Mailing Address:	100 Diuguids Lane
		Salem, VA 24153
	Industrial Barrers	
.4.	industrial Processe	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  ed Structural Metal; SIC 3444 Sheet Metal Work
	SIC 3441: Fabricate	ed Structural Metal; SIC 3444 Sheet Metal Work
	SIC 3441: Fabricate	
	SIC 3441: Fabricate Principal Product(s	ed Structural Metal; SIC 3444 Sheet Metal Work
.5.	SIC 3441: Fabricate Principal Product(s	ed Structural Metal; SIC 3444 Sheet Metal Work s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	SIC 3441: Fabricate Principal Product(s discharge.	ed Structural Metal; SIC 3444 Sheet Metal Work s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	SIC 3441: Fabricate Principal Product(s discharge.	ed Structural Metal; SIC 3444 Sheet Metal Work s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):	ed Structural Metal; SIC 3444 Sheet Metal Work s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel joists and joist girders
	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate.	Steel joists and joist girders  Steel and galvanized coils
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	ed Structural Metal; SIC 3444 Sheet Metal Work s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Steel joists and joist girders
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo	steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or X_ intermittent)
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallon (continuous or X_intermittent)
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400  b. Non-process system in gas	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400  b. Non-process system in ga 900	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or X_intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
.5.	Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400  b. Non-process system in ga 900	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400  b. Non-process system in ga 900  Pretreatment Standa. Local limits	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  swastewater flow rate. Indicate the average daily volume of process wastewater flow discharged into the collection system in gallon (continuous or intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:
.6.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 1,400  b. Non-process system in ga 900  Pretreatment Stanca. Local limits b. Categorical	Steel joists and joist girders  Steel and galvanized coils  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallon (continuous orintermittent)  swastewater flow rate. Indicate the average daily volume of process wastewater flow discharged into the collection system in gallon (continuous or intermittent)  swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  dards. Indicate whether the SIU is subject to the following:  No

Veste	n Virginia Water Authority Wa	ter Pollution Contra	ol Plant: VA0025020		OMB Number 2040 0000
este		AND RESIDENCE OF THE PROPERTY OF THE PARTY O		II Has the SILI caus	OMB Number 2040-0086 sed or contributed to any problems
.8.	upsets, interference) at the trea			o. Thas the Old caus	sed of contributed to any problems
	Yes X No	If yes, descr	ribe each episode.		
		No. of the last			
CRA	HAZARDOUS WASTE REC	CEIVED BY TRUCK	K, RAIL, OR DEDICATED	PIPELINE:	
9.	RCRA Waste Does the treatn	nent works receive or	r has it in the nest three year	received PCPA haz	ardous waste by truck, rail, or ded
	pipe?	TOTAL WORKS TOSCITO ST	That it in the past three year	received (Coro-maz	ardous waste by truck, rail, or ded
	Yes X	No (go to F.12.)			
10.	Waste Transport. Method by	which RCRA waste is	s received (check all that app	lv):	
		Rail	Dedicated Pipe	77	
	IIUCK	Rail	Dedicated Fipe		
11.	Wasta Description Give EDA	hazardaya waata ny	umber and amount (values a	z mana annaifu unita)	
11.	Waste Description. Give EPA				
	EPA Hazardous Waste Number	1	Amount	<u>Un</u>	<u>iits</u>
				Service Services	
FRC	I A (CLIDEDELIND) WACTER			VE ACTION	
			MEDIATION/CORRECT	VE ACTION	
	EWATER, AND OTHER RE			VE ACTION	
AST	EWATER, AND OTHER RE	MEDIAL ACTIVITY	Y WASTEWATER:		
AST		MEDIAL ACTIVITY	Y WASTEWATER:		vaste from remedial activities?
AST	EWATER, AND OTHER RE	MEDIAL ACTIVITY e treatment works cur	Y WASTEWATER:		raste from remedial activities?
	Remediation Waste. Does the	e treatment works cur ugh F.15.)	Y WASTEWATER:  rrently (or has it been notified  X No	I that it will) receive w	vaste from remedial activities?
/AST	Remediation Waste. Does the Yes (complete F.13 thro	e treatment works cur ugh F.15.)	Y WASTEWATER:  rrently (or has it been notified  X No	I that it will) receive w	vaste from remedial activities?
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	vaste from remedial activities?
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si	e treatment works cur ugh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current	I that it will) receive w	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)	e treatment works cur ingh F.15.) equested information ite and type of facility	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	aste originates (or is expected to
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)	e treatment works cur- ugh F.15.) equested information ite and type of facility .	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous	e treatment works cur- ugh F.15.) equested information ite and type of facility .	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	aste originates (or is expected to
12.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous	e treatment works cur- ugh F.15.) equested information ite and type of facility .	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	aste originates (or is expected to
.12. .13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous	e treatment works cur- ugh F.15.) equested information ite and type of facility .	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet	e treatment works cur- ugh F.15.) equested information ite and type of facility .	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive went and future site.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.	e treatment works cur- ugh F.15.) equested information ite and type of facility . s constituents that are ets if necessary).	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCR/	I that it will) receive we not and future site.  Vor other remedial was a received). Include of	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward waste Origin. Describe the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or the site of th	e treatment works cur- ugh F.15.) equested information ite and type of facility . s constituents that are ets if necessary). will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCRA	I that it will) receive we not and future site.  Vor other remedial was a received). Include of	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward of the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes	e treatment works cur- ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).  will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCRA e received (or are expected to the received to entering the treatment we	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward of the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes	e treatment works cur- ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).  will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCR/	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward of the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes	e treatment works cur- ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).  will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCRA e received (or are expected to the received to entering the treatment we	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward of the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes	e treatment works cur- ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).  will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCRA e received (or are expected to the received to entering the treatment we	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
/AST	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward of the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes	e treatment works cur- ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).  will it be treated) prior	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCRA e received (or are expected to the received to entering the treatment we	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward waste Origin. Describe the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes If yes, describe the treat	e treatment works cur ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).	rrently (or has it been notified  X No  (F.13 - F.15.) for each current at which the CERCLA/RCR/	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	aste originates (or is expected to
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the re Waste Origin. Describe the si originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet  Waste Treatment.  a. Is this waste treated (or Yes If yes, describe the treat	e treatment works cur ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCR/  e received (or are expected to attend about the removal efficient intinuous or intermittent?	I that it will) receive we not and future site.  Vor other remedial was a received). Include of the preceived of the preceive	data on volume and concentration,
12. 13.	Remediation Waste. Does the Yes (complete F.13 thro Provide a list of sites and the reward waste Origin. Describe the site originate in the next five years)  Pollutants. List the hazardous known. (Attach additional sheet waste Treatment.  a. Is this waste treated (or Yes If yes, describe the treat	e treatment works cur ugh F.15.) equested information ite and type of facility  s constituents that are ets if necessary).	rrently (or has it been notified  X No  (F.13 - F.15.) for each current which the CERCLA/RCR/  e received (or are expected to attend about the removal efficient intinuous or intermittent?	I that it will) receive we not and future site.  Vor other remedial was preceived). Include depreceived.	data on volume and concentration,

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 7550-22.

Western Virginia Water Autority Water Pollution Control Plant; VA0025020

DAD		
		USER DISCHARGES AND RCRA/CERCLA WASTES discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Par
F.		
GEN	ERAL INFORMAT	ION:
F.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	v v	
	Yes	_No
F.2.	Number of Significant industrial users that d	t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of lischarge to the treatment works.
	a. Number of no	on-categorical SIUs19
	b. Number of CI	Us. <u>22</u>
SIGN	HEICANT INDUST	RIAL USER INFORMATION:
		nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
	de the information req	
F.3.	Significant Industria pages as necessary.	Il User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Novozymes Biological, Incorporated
	Mailing Address:	111 Kessler Mill Drive
		Salem, VA 24153
F.4.	Industrial Processes SIC 2836: Biological	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	SIC 2836: Biological	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	SIC 2836: Biological Principal Product(s)	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products
	SIC 2836: Biological Principal Product(s) discharge.	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products
	Principal Product(s) discharge.  Principal product(s):	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate.	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.    Products
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 24,600  b. Non-process	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.    Products
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 24,600  b. Non-process	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 24,600  b. Non-process system in gall 1,175	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 24,600  b. Non-process system in gall 1,175	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.    Products
F.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 24,600  b. Non-process system in gall 1,175  Pretreatment Standa a. Local limits	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)  24,600  b. Non-process system in gall  1,175  Pretreatment Standa a. Local limits b. Categorical principal product(s):	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  I Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning , Wastewater Treatment and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:

ecto	rn Virginia Water Aut	hority Water Pollution	Control Plant; VA0025020	OND N	
este				OMB Number 2040-008 das the SIU caused or contributed to any probl	
1.			in the past three years?	ias the Gro caused of contributed to any probl	ems
	Yes X	No If yes	s, describe each episode.		
	and the contract				
			A STATE OF THE STA		
RA	HAZARDOUS WA	STE RECEIVED BY	TRUCK, RAIL, OR DEDICATED PIP	PELINE:	
8					
	RCRA Waste. Does pipe?	the treatment works red	ceive or has it in the past three years rece	eived RCRA hazardous waste by truck, rail, or	dedi
	Yes	X No (go to F.1)	2.)		
0.	Waste Transport. N	lethod by which RCRA	waste is received (check all that apply):		
	Truck	Rail	Dedicated Pipe		
1.	Waste Description.	Give EPA hazardous w	vaste number and amount (volume or mas	ss, specify units).	
	EPA Hazardous Was	te Number	Amount	Units	
		Admittal and the second			
				CTION	and the same of
			RA REMEDIATION/CORRECTIVE A	ACTION	
			RA REMEDIATION/CORRECTIVE A TIVITY WASTEWATER:	ACTION	
				ACTION	
AST	TEWATER, AND OT	HER REMEDIAL AC	TIVITY WASTEWATER:		
AST	Remediation Waste	. Does the treatment we	TIVITY WASTEWATER: orks currently (or has it been notified that	it will) receive waste from remedial activities?	
AST	Remediation Waste	Does the treatment were F.13 through F.15.)	orks currently (or has it been notified that	it will) receive waste from remedial activities?	
AST	Remediation Waste	Does the treatment were F.13 through F.15.)	TIVITY WASTEWATER: orks currently (or has it been notified that	it will) receive waste from remedial activities?	
12.	Remediation Waste.  Yes (complete Provide a list of sites	Does the treatment work. The strong property of the treatment work. The strong property of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
AST 12.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Desc	Does the treatment won F.13 through F.15.) and the requested informible the site and type of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
AST 12.	Remediation Waste.  Yes (complete Provide a list of sites	Does the treatment won F.13 through F.15.) and the requested informible the site and type of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
AST 12.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Desc	Does the treatment won F.13 through F.15.) and the requested informible the site and type of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
AST 12.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Desc	Does the treatment won F.13 through F.15.) and the requested informible the site and type of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
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12.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Desc	Does the treatment won F.13 through F.15.) and the requested informible the site and type of	orks currently (or has it been notified that  X No rmation (F.13 - F.15.) for each current and	it will) receive waste from remedial activities?	
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2. 3.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Desc originate in the next fi	HER REMEDIAL AC  Does the treatment were found to the requested information in the requested information in the site and type of the site and type of the years).  The remaining the rem	orks currently (or has it been notified that	it will) receive waste from remedial activities?  If future site.  ther remedial waste originates (or is expected eived). Include data on volume and concentrate	to
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Western Virginia Water Authority Water Pollution Control Plant; VA0025020

OMB Number 2040-0086

	IERAL INFORMAT	ON:	
.1.	Pretreatment Progra	m. Does the treatment works have, or is it subject to, an approved pretreatment program?	
	X Yes	No	
.2.		Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following type ischarge to the treatment works.	es of
		n-categorical SIUs. 19	
	b. Number of CI	Us. 22	
	UEIA ANT INDUCT		
		RIAL USER INFORMATION: ation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F	8 and
	de the information req		.o una
3.	Significant Industria	User Information. Provide the name and address of each SIU discharging to the treatment works. Submit add	litional
	pages as necessary.	The state of the s	attorial
	Name:	Novozymes Biologicals, Incorporated	
	Mailing Address:	528 Chapman	
		Salem, VA 24153	
4.	Industrial Processes	Describe all of the industrial processes that affect or contribute to the SIU's discharge.	
.4.	Industrial Processes SIC 2836: Biological	. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	
	SIC 2836: Biological	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products	
.4.	SIC 2836: Biological	. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	- IU's
	SIC 2836: Biological Principal Product(s)	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products	- IU's
	SIC 2836: Biological Principal Product(s)	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products	- IU's
	Principal Product(s) discharge.  Principal product(s):	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI	- IU's
	SIC 2836: Biological  Principal Product(s) discharge.	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,	- IU's
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products	U's
	Principal Product(s) discharge.  Principal product(s):  Raw material(s):	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,	
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate	
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is	
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)	- - in gallon
5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600  b. Non-process of	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.	- - in gallor
.5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600  b. Non-process of	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.  gpd (continuous or _Xintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection to the collection in the collection in the collection in the collection in the collection is a continuous or _Xintermittent.	- - in gallor
<ol> <li>6.</li> </ol>	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600  b. Non-process system in gall  0	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  evater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  vastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)	- - in gallon
5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600  b. Non-process system in gall  0	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  ewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)  vastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous orX intermittent)  rds. Indicate whether the SIU is subject to the following:	- - in gallor
5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process waste per day (gpd)  12,600  b. Non-process system in gall  0  Pretreatment Standa a. Local limits	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI  Cleaning, Wastewater Treatment, Animal Feed, and Aquaculture Products  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  evater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system is and whether the discharge is continuous or intermittent.  gpd (continuous or Xintermittent)  vastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)	- - in gallor

locto	rn Virginia Water Authority Water Ballutian Cantrol Black	VA0025020		
este	rn Virginia Water Authority Water Pollution Control Plant; Problems at the Treatment Works Attributed to Waste Di			Number 2040-0086
3.	upsets, interference) at the treatment works in the past three	e years?	as the SiO caused or contri	buted to any problems
	Yes X No If yes, describe each			
CRA	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL	, OR DEDICATED PIP	ELINE:	
Э.	RCRA Waste. Does the treatment works receive or has it in pipe?	the past three years rece	eived RCRA hazardous was	te by truck, rail, or dedi
	Yes X No (go to F.12.)			
	res No (go to F.12.)			
	Waste Transport Method by which DCDA waste is week.	d (ab a de all ab at as ab A		
0.	Waste Transport. Method by which RCRA waste is receive			
	RailDedi	cated Pipe		
11.	Waste Description. Give EPA hazardous waste number an	nd amount (volume or mas	ss, specify units).	
	EPA Hazardous Waste Number Amou	<u>unt</u>	Units	
			The Park of the State of	
			AT A SECURITY OF THE PARTY OF T	
ERC	LA (SUPERFUND) WASTEWATER, RCRA REMEDIA	TION/CORRECTIVE A	CTION	
	LA (SUPERFUND) WASTEWATER, RCRA REMEDIA TEWATER, AND OTHER REMEDIAL ACTIVITY WAST		ACTION	
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIA TEWATER, AND OTHER REMEDIAL ACTIVITY WAST		ACTION	
AST	TEWATER, AND OTHER REMEDIAL ACTIVITY WAST	TEWATER:		emedial activities?
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AST	Remediation Waste. Does the treatment works currently (o  Yes (complete F.13 through F.15.)	r has it been notified that  No	it will) receive waste from re	emedial activities?
/AST	Remediation Waste. Does the treatment works currently (co	r has it been notified that  No	it will) receive waste from re	emedial activities?
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AS1	Remediation Waste. Does the treatment works currently (or Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.13 through F.15.)  Waste Origin. Describe the site and type of facility at which	r has it been notified that  X No  7.15.) for each current and	it will) receive waste from ref	
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12. 13.	Remediation Waste. Does the treatment works currently (or Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F. Waste Origin. Describe the site and type of facility at which originate in the next five years).  Pollutants. List the hazardous constituents that are received.	r has it been notified that  X No  7.15.) for each current and the CERCLA/RCRA/or or	it will) receive waste from refuture site.	tes (or is expected to
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REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

GEN F.1.		
F.1.	ERAL INFORMAT	ION:
	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	Yes	No
F.2.		nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of n	on-categorical SIUs. 19
	b. Number of C	IUs. <u>22</u>
		RIAL USER INFORMATION:
	ly the following inform de the information rec	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and quested for each SIU.
F.3.	Significant Industria pages as necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Novozymes Biologicals, Incorporated
	Mailing Address:	528 Chapman Ave.
		Salem, VA 24153
	SIC 2836: Biologica	
F.5.	Principal Product(s discharge.	) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal product(s):	Fermentation, formulation and packaging of microbes
	Raw material(s):	Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,
		NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate
F.6.		tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons) and whether the discharge is continuous or intermittent.
	535	gpd (continuous or X_intermittent)
		wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.
	System in ga	gpd (continuous orX intermittent)
	40	
·.7.	40	ards. Indicate whether the SIU is subject to the following:
F.7.	40	ards. Indicate whether the SIU is subject to the following: X_YesNo

Yes (complete F.13 through F.15.)  X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).	la - t 15	alata Wasan a sa	W-4 P				Form Approved 1/14/	
Post						lee the CILI		
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PRAHAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  Yes No (go to F.12.)  Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION  ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.) X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):								
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a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	2. Rem Prov  3. Was origin  4. Pollu	rediation Waste. Does Yes (complete F.13 the dide a list of sites and the dide and the dide in the next five year and the dide.  The origin is the next five year and the dide.	the treatment works through F.15.) e requested informate site and type of factors).	s currently (or has it  X tion (F.13 - F.15.) fo	TER: been notified that No or each current and ERCLA/RCRA/or or	it will) receive was I future site. ther remedial wast	te originates (or is expect	ed to
a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	2. Rem Prov  3. Was origin  4. Pollu	rediation Waste. Does Yes (complete F.13 the dide a list of sites and the dide and the dide in the next five year and the dide.  The origin is the next five year and the dide.	the treatment works through F.15.) e requested informate site and type of factors).	s currently (or has it  X tion (F.13 - F.15.) fo	TER: been notified that No or each current and ERCLA/RCRA/or or	it will) receive was I future site. ther remedial wast	te originates (or is expect	ed to
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YesNo If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	2. Rem Prov  3. Was origin  4. Polluknow	rediation Waste. Does Yes (complete F.13 the deal list of sites and the dea	the treatment works through F.15.) e requested informate site and type of factors).	s currently (or has it  X tion (F.13 - F.15.) fo	TER: been notified that No or each current and ERCLA/RCRA/or or	it will) receive was I future site. ther remedial wast	te originates (or is expect	ed to
If yes, describe the treatment (provide information about the removal efficiency):  b. Is the discharge (or will the discharge be) continuous or intermittent?	2. Rem Prov 3. Was origin 4. Polluknow	rediation Waste. Does Yes (complete F.13 the dide a list of sites and the dide a list of sites and the dide at list of sites and dide at list of sites a	the treatment works through F.15.) e requested informate site and type of factors).	s currently (or has it  X tion (F.13 - F.15.) for cility at which the CE	been notified that No or each current and ERCLA/RCRA/or or	it will) receive was I future site. ther remedial wast	te originates (or is expect	ed to
b. Is the discharge (or will the discharge be) continuous or intermittent?	2. Rem Prov 3. Was origin 4. Polluknow	rediation Waste. Does Yes (complete F.13 this ide a list of sites and the rediate in the next five year and rediate in the next five year.  Is this waste treated (	the treatment works through F.15.) e requested informate site and type of factors).	s currently (or has it  X tion (F.13 - F.15.) for cility at which the CE	been notified that No or each current and ERCLA/RCRA/or or	it will) receive was I future site. ther remedial wast	te originates (or is expect	ed to
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Continuous Intermittent If intermittent, describe discharge schedule.	Prov  13. Was origin  14. Pollu know	rediation Waste. Does Yes (complete F.13 the dide a list of sites and the dide dide dide dide dide dide did dide did did	the treatment works through F.15.) e requested informate site and type of factors).  ous constituents that heets if necessary).  or will it be treated) No eatment (provide information of the provide information	s currently (or has it  X tion (F.13 - F.15.) for cility at which the CE t are received (or an	been notified that No or each current and ERCLA/RCRA/or or expected to receive expected to receive treatment works?	it will) receive was If future site. Ther remedial wast	te originates (or is expect	ed to
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	Prov  13. Was origin  14. Pollu know	rediation Waste. Does Yes (complete F.13 the dide a list of sites and the	the treatment works through F.15.) the requested informate site and type of factors).  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors are site and type of factors.  The requested informate site and type of factors are site and type of factors are site and type of factors.  The requested informate site and type of factors are site and t	s currently (or has it  X tion (F.13 - F.15.) for cility at which the CE t are received (or an	been notified that No or each current and ERCLA/RCRA/or or expected to receive expected to receive treatment works?	it will) receive was if future site. ther remedial wast	te originates (or is expect	ed to

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

OLI	IERAL INFORMA	TION:
.1.	Pretreatment Prog	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
	_ X Tes	No No
.2.	Number of Significa	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
		non-categorical SIUs. 19
	b. Number of 0	CIUs. 22
ICI	WEICANT INDUS	TRIAL USER INFORMATION:
		RIAL USER INFORMATION: mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 an
		quested for each SIU.
.3.	Significant Industr	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additiona
	pages as necessary	
	Name:	Novozymes Biologicals, Incorporated
	Mailing Address:	420 Kessler Mill Drive
	Mailing Address:	420 Kessler Mill Drive Salem, VA 24153
	Mailing Address:	CONTROL OF THE PROPERTY OF THE
.4.		CONTROL OF THE PROPERTY OF THE
·.4.	Industrial Processe	Salem, VA 24153
	Industrial Processor	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processor SIC 2875: Fertilizer	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processes SIC 2875: Fertilizer Principal Product(sicharge.	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  es) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processes SIC 2875: Fertilizer Principal Product(sicharge.	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  es) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
.5.	Industrial Processing SIC 2875: Fertilizer  Principal Product(sicharge.  Principal product(s):  Raw material(s):	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture
:.4. :.5.	Industrial Processing SIC 2875: Fertilizer  Principal Product(sicharge.  Principal product(s):  Raw material(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate
.5.	Industrial Process SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,
.5.	Industrial Process SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Es, mixing only; SIC 2836: Biological Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate
.5.	Industrial Process SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 2,830  b. Non-process	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  es, mixing only; SIC 2836: Biological Products  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled and whether the discharge is continuous or intermittent.  gpd
.5.	Industrial Process SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 2,830  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Es, mixing only; SIC 2836: Biological Products  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled) and whether the discharge is continuous or intermittent.  gpdcontinuous or Xintermittent)
.5.	Industrial Process SIC 2875: Fertilizer  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 2,830  b. Non-process system in gas	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Es, mixing only; SIC 2836: Biological Products  S) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled and whether the discharge is continuous or intermittent.  gpd (
.5.	Industrial Processis SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 2,830  b. Non-process system in ga 180	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Es, mixing only; SIC 2836: Biological Products  S) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,  NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled and whether the discharge is continuous or intermittent.  gpd (
.5.	Industrial Processis SIC 2875: Fertilizer  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpo 2,830  b. Non-process system in ga 180	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s, mixing only; SIC 2836: Biological Products  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Cleaning, Wastewater Treatment, Plant Care, and Aquaculture  Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine, NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galled in and whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or X intermittent)

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

	PPI EMENTA	L APPLICATION INFORMATION
		USER DISCHARGES AND RCRA/CERCLA WASTES discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete Par
GEN	IERAL INFORMAT	ION:
F.1.	Pretreatment Progra	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	V V	
	X Yes	_No
F.2.		t Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of no	on-categorical SIUs. 19
	b. Number of C	IUs. <u>22</u>
SIGN	NIFICANT INDUST	RIAL USER INFORMATION:
	ly the following inform de the information req	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and quested for each SIU.
F.3.	Significant Industria pages as necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Novozymes Biologicals, Incorporated
	Mailing Address:	620 Chapman Avenue
		Salem, VA 24153
F.4.	SIC 2836: Biologica	
F.5.	discharge.	and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal product(s):	Fermentation, formulation and packaging of microbes
	Raw material(s):	Nickel, Iron, Zinc, Manganese, NaOH, De-foamer, Phosphoric Acid, NaSulfite, chlorine,
	FI P-4-	NaChloride Na Tri-polyphosphate, dimethly dihydrogen diphosphate
F.6.		rewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons and whether the discharge is continuous or intermittent.
	180	_gpd (continuous or X_intermittent)
		wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.
	105	_gpd (continuous or intermittent)
F.7.	Pretreatment Stands	ards. Indicate whether the SIU is subject to the following:
	a. Local limits	X Yes No
		retreatment standards Yes X No

Problems at the Treatment Works Attributed to Waste Dicharged by the SIU. Has the SIU caused or contributed to any problems upsets, interference) at the treatment works in the past three years?		ITY NAME AND PERMIT NUMBER:			Form Approved 1/14/99
Superst, interference) at the treatment works in the past three years?   Yes	Veste		The state of the s	The second secon	
Yes X No If yes, describe each episode.    CCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:	8				e SIU caused or contributed to any problems (e.
PRICE HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:  9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  Yes X No (go to F.12)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):					
.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  YesXNo (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply): TruckRailDedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste NumberAmount			, describe edur ep		
9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.) X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):					
.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail, or ded pipe?  Yes X No (go to F.12.)  10. Waste Transport. Method by which RCRA waste is received (check all that apply):  Truck Rail Dedicated Pipe  11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number Amount Units  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  12. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.) X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  13. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):		Table 1 and the second			
	RCR/	HAZARDOUS WASTE RECEIVED BY T	TRUCK, RAIL, C	R DEDICATED PIPELI	NE:
				THE REAL PROPERTY.	
	.9.		eive or has it in the	e past three years received	RCRA hazardous waste by truck, rail, or dedicate
.10. Waste Transport. Method by which RCRA waste is received (check all that apply):					
		165 110 (90 10 1 . 12			
	10	Waste Transport Method by which BCBA	wasta is received (	abook all that annive	
.11. Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  EPA Hazardous Waste Number  Amount  Units  Description. Give EPA hazardous waste number and amount (volume or mass, specify units).  ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:  1.2. Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?  Yes (complete F.13 through F.15.)  X No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and future site.  1.3. Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).  1.4. Pollutants. List the hazardous constituents that are received (or are expected to received). Include data on volume and concentration, known. (Attach additional sheets if necessary).  1.5. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	.10.				
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		If yes, describe the treatment (provide	information about	the removal efficiency):	
ContinuousIntermittent If intermittent, describe discharge schedule.		b. Is the discharge (or will the discharge b	be) continuous or in	ntermittent?	
		Continuous	Intermittent	If intermittent, describe	discharge schedule.
		La			
END OF PART F.			FND	OF PART F	

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

	IERAL INFORMA	ATION:
.1.	Pretreatment Prog	gram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
2.	Number of Significa	ant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
		non-categorical SIUs. 19
	b. Number of	
		TRIAL USER INFORMATION: rmation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
rovi	de the information re	equested for each SIU.
3.	Significant Indust	rial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	pages as necessar	
	Name:	Pepsi Cola Bottling Group, LLC
	Mailing Address:	226 Lee Highway
		Roanoke, VA 24019
4.		
.4.	Industrial Process	ses. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Process Manufactures Sof	2000년 1901년 - 1200년 1 1800년 1200년 12
	Manufactures Sof	t Drinks
	Manufactures Sof	
	Manufactures Sof	t Drinks
	Manufactures Sof	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Manufactures Sof Principal Product discharge. Principal product(s)	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks
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5.	Manufactures Sof  Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 41,300  b. Non-proces	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Syrup concentrate, corn sweetner, preservatives and flavoring compounds  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallo and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
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<ol> <li>6.</li> </ol>	Manufactures Sof  Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 41,300  b. Non-proces system in g 2,000	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Syrup concentrate, corn sweetner, preservatives and flavoring compounds  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallow and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection gallons per day (gpd) and whether the discharge is continuous or intermittent.
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5.	Principal Productidischarge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process waper day (gp 41,300  b. Non-process system in g 2,000  Pretreatment Stanta. a. Local limits	(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Soft Drinks  Syrup concentrate, corn sweetner, preservatives and flavoring compounds  astewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallo and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  as wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection gallons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  adards. Indicate whether the SIU is subject to the following:

<b>Nest</b> e	ern Virginia Water Authority Water Pollution Control Plant; VA0025020	OMB Number 2040-0086
	Problems at the Treatment Works Attributed to Waste Discharged by the SIU. Has t	he SIU caused or contributed to any problems (e
.8.	upsets, interference) at the treatment works in the past three years?	
	Yes X No If yes, describe each episode.	
RCR	A HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPEL	INE:
		是 10 大型 20 大型 20 大型 10
.9.	RCRA Waste. Does the treatment works receive or has it in the past three years received	d RCRA hazardous waste by truck, rail, or dedica
	pipe?	
	YesX _ No (go to F.12.)	
40	Weste Transport Method by which DCDA weste is received (about all that seek )	
.10.		
	Truck Rail Dedicated Pipe	
.11.		specify units).
	EPA Hazardous Waste Number Amount	<u>Units</u>
		The state of the s
		The state of the s
	CLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACT	ION
VAS	TEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
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:.12. :.13.	Remediation Waste. Does the treatment works currently (or has it been notified that it will yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and futility waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	ure site. remedial waste originates (or is expected to
.12.	Remediation Waste. Does the treatment works currently (or has it been notified that it will yes (complete F.13 through F.15.)  Yes (complete F.13 through F.15.)  Yes (complete F.13 through F.15.)  Yes No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and full waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	remedial waste originates (or is expected to
:.12. :.13.	Remediation Waste. Does the treatment works currently (or has it been notified that it will yes (complete F.13 through F.15.)  Provide a list of sites and the requested information (F.13 - F.15.) for each current and futility waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	remedial waste originates (or is expected to
	Remediation Waste. Does the treatment works currently (or has it been notified that it will yes (complete F.13 through F.15.)  Yes (complete F.13 through F.15.)  Yes (complete F.13 through F.15.)  Yes No  Provide a list of sites and the requested information (F.13 - F.15.) for each current and full waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other originate in the next five years).  Pollutants. List the hazardous constituents that are received (or are expected to received known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment works?  Yes No  If yes, describe the treatment (provide information about the removal efficiency):	remedial waste originates (or is expected to

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

CEN		
GEN	NERAL INFORMAT	ION:
F.1.	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
		No
.2.	Number of Significan industrial users that of	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of discharge to the treatment works.
	a. Number of no	on-categorical SIUs. 19
	b. Number of C	IUs. <u>22</u>
SIGI	NIFICANT INDUST	RIAL USER INFORMATION:
Supp	ly the following inform	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and
provi	de the information req	uested for each SIU.
F.3.	Significant Industria pages as necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional
	Name:	Precision Fabrics Group Inc.
	Mailing Address:	323 West Virginia Avenue
	Mailing Address:	323 West Virginia Avenue Vinton, VA 24179
	Mailing Address:	CONTRACTOR OF THE CONTRACTOR O
F.4.		CONTRACTOR OF THE CONTRACTOR O
F.4.		Vinton, VA 24179  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processes Weaving, Slashing,	Vinton, VA 24179  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processes Weaving, Slashing, Principal Product(s)	Vinton, VA 24179  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down
	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.	vinton, VA 24179  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
F.4.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products
	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd)	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 62,540  b. Non-process	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 62,540  b. Non-process	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 62,540  b. Non-process system in gall 4,700	S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.
₹.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 62,540  b. Non-process system in gall 4,700	Solution, VA 24179  solution and Raw Material (s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)
F.5.	Industrial Processes Weaving, Slashing, Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 62,540  b. Non-process system in gall 4,700  Pretreatment Standa a. Local limits	Source Service all of the industrial processes that affect or contribute to the SIU's discharge.  Wash down  In and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Synthetic Nylon, Polyester Filament Yarn, into a variety of products  Nylon, polyester yarn, fabric sizing, cleaning chemicals, soap corrosion inhibitors,  Biocide 430, oil, NaCL, Soda ash  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallor and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)

	IAME AND PERMIT NUMBER:		Form Approved 1/14/99
	rginia Water Authority Water Pollution Control Plant; VA002		OMB Number 2040-0086
.8. upse	blems at the Treatment Works Attributed to Waste Dischargets, interference) at the treatment works in the past three years'	ged by the SIU. Has the SIU ca	used or contributed to any problems
.c. apo	Yes X No If yes, describe each episod		
-	No il yes, describe each episod	ie.	
-			
CRA HAZ	ZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR D	DEDICATED PIPELINE:	
.9. RCF	RA Waste. Does the treatment works receive or has it in the pa	set three years received PCDA h	azardous waste by trusk rail or dadi
pipe		ist tillee years received RCRA III	azardous waste by truck, rail, or dedic
	YesX No (go to F.12.)		
.10. Was	ste Transport. Method by which RCRA waste is received (chec	ck all that apply):	
	Truck Rail Dedicated F	Pipe	
.11. Was	ste Description. Give EPA hazardous waste number and amou	unt (volume or mass, specify uni	ts).
	A Hazardous Waste Number Amount		Jnits
-	STATE OF THE PARTY		
-			
_			
EDCI A (	SUPERFUND) WASTEWATER, RCRA REMEDIATION/	CORRECTIVE ACTION	
	ATER, AND OTHER REMEDIAL ACTIVITY WASTEWAT		
	nediation Waste. Does the treatment works currently (or has it	been notified that it will) receive	waste from remedial activities?
12. Rem Prov	rediation Waste. Does the treatment works currently (or has it  Yes (complete F.13 through F.15.)  X  Note that the property of the property o	been notified that it will) receive No or each current and future site.	
12. Rem Prov	rediation Waste. Does the treatment works currently (or has it  Yes (complete F.13 through F.15.)  X  Note that the initial property is a second of the initial property in the initial property is a second of the initial property in the initial pr	been notified that it will) receive No or each current and future site.	
12. Rem Prov	rediation Waste. Does the treatment works currently (or has it  Yes (complete F.13 through F.15.)  X  Note that the property of the property o	been notified that it will) receive No or each current and future site.	
12. Rem Prov	rediation Waste. Does the treatment works currently (or has it  Yes (complete F.13 through F.15.)  X  Note that the property of the property o	been notified that it will) receive No or each current and future site.	
Prov	rediation Waste. Does the treatment works currently (or has it  Yes (complete F.13 through F.15.)  X  Note that the property of the property o	been notified that it will) receive No or each current and future site.	
Prov  13. Was origin	Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
Prov.  13. Was origin	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
Prov  13. Was origin	Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
Prov  13. Was origin	Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
Prov  13. Was original triangle original triangl	Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
Prov.  13. Was original.  14. Polling knov.	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Substituting the complete of the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site. ERCLA/RCRA/or other remedial	waste originates (or is expected to
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Prov  13. Was origin  14. Polli knov	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Substitute of the information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Substitute of the information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).	been notified that it will) receive No or each current and future site.  ERCLA/RCRA/or other remedial or expected to received). Include treatment works?	waste originates (or is expected to
Prov  13. Was origin  14. Polli knov	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Set a treatment in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents).	been notified that it will) receive No or each current and future site.  ERCLA/RCRA/or other remedial or expected to received). Include treatment works?	waste originates (or is expected to
Prov.  13. Was origin  14. Polli knov	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Set a treatment in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the treatment in the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents that are received (or an which is the hazardous constituents).	been notified that it will) receive No or each current and future site.  ERCLA/RCRA/or other remedial or expected to received). Include treatment works?	waste originates (or is expected to
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Prov  13. Was origin  14. Polli knov  15. Was a.	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Set origin. Describe the site and type of facility at which the CE inate in the next five years).  Set origin. List the hazardous constituents that are received (or an wn. (Attach additional sheets if necessary).  Set or	been notified that it will) receive No or each current and future site.  ERCLA/RCRA/or other remedial the expected to received). Include treatment works?	waste originates (or is expected to
Prov  13. Was origin  14. Polli knov  15. Was a.	rediation Waste. Does the treatment works currently (or has it Yes (complete F.13 through F.15.)  X Notice a list of sites and the requested information (F.13 - F.15.) for site Origin. Describe the site and type of facility at which the CE inate in the next five years).  Set origin. Describe the site and type of facility at which the CE inate in the next five years).  Set origin. List the hazardous constituents that are received (or an wn. (Attach additional sheets if necessary).  Set or	been notified that it will) receive No or each current and future site.  ERCLA/RCRA/or other remedial or expected to received). Include treatment works?	waste originates (or is expected to

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

F.		g discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must com	plete Pa
GEN	IERAL INFORMA	TION:	
.1.	Pretreatment Pro	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?	
		and the second s	
	Yes	No ·	
F.2.	Number of Signific	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following type	o of
		discharge to the treatment works.	3 01
	a. Number of	non-categorical SIUs. 19	
	b. Number of	CIUs. <u>22</u>	
SIGI	NIFICANT INDIES	TRIAL USER INFORMATION:	
		mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F	.8 and
		quested for each SIU.	
.3.	Significant Indust	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit add	itional
	pages as necessar		Itioriai
	Name:	Precision Steel Manufacturing Corporation	
	Mailing Address:	1723 Seibel Drive	
		Roanoke, VA 24012	
		rounding to Etole	
	Industrial Process		
.4.		es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	
.4.	Industrial Process Steel Fabrication		
	Steel Fabrication Principal Product		U's
	Steel Fabrication	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.	U's
	Principal Product discharge.	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI	U's
	Steel Fabrication Principal Product	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI	U's
	Principal Product discharge.  Principal product(s)	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products	U's
	Principal Product discharge.	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SI	U's
·	Principal Product discharge.  Principal product(s)  Raw material(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products	U's
	Principal Product discharge.  Principal product(s)  Raw material(s):	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal	
.5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products	
5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in	
.5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)	n gallon
.5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 100  b. Non-process	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SII  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in and whether the discharge is continuous or intermittent.	n gallon
.5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 100  b. Non-process	Describe all of the industrial processes that affect or contribute to the SIU's discharge.  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in and whether the discharge is continuous or intermittent.  gpd (X continuous or intermittent)	n gallon
.5.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 100  b. Non-process system in general product (s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  S) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in and whether the discharge is continuous or intermittent.  gpd (_Xcontinuous orintermittent)  So wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent.	n gallon
.6.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 100 b. Non-proces system in g 900	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  S) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU  Job Shop Custom Fabrication of Sheet Metal and Structural Steel Products  Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in and whether the discharge is continuous or intermittent.  gpd (_Xcontinuous orintermittent)  So wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent.	n gallon
.6.	Principal Product discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wa per day (gp 100 b. Non-proces system in g 900	Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gpd (Xcontinuous orintermittent)  Swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Swastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)	n gallon
.5.	Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process wa per day (gp 100  b. Non-proces system in g 900  Pretreatment Stan a. Local limits	Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  Selards. Indicate whether the SIU is subject to the following:	n gallon
.6.	Principal Product discharge.  Principal product(s)  Raw material(s):  Flow Rate. a. Process was per day (gp 100 b. Non-proces system in g 900  Pretreatment Stan a. Local limits b. Categorical	Degreaser, phosphatizer, coolant, oil, paints, steel, & sheet metal  Stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gpd (Xcontinuous orintermittent)  Se wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collections per day (gpd) and whether the discharge is continuous or intermittent. gpd (Xcontinuous or intermittent)  Search. Indicate whether the SIU is subject to the following: XYes No	n gallon

Vestern Virginia Water Authority Water Pollution Control Plant; VA0025020	
restant ringinia trater radiotity trater i onadon conditi i lant, vice 20020	OMB Number 2040-0086
Problems at the Treatment Works Attributed to Waste Discharged by .8. upsets, interference) at the treatment works in the past three years?	the SIU. Has the SIU caused or contributed to any problems (e.
Yes X No If yes, describe each episode.	
CRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDIC	ATED PIPELINE:
9. RCRA Waste. Does the treatment works receive or has it in the past thre	e years received RCRA hazardous waste by truck, rail, or dedica
pipe?	
YesXNo (go to F.12.)	
10. Waste Transport. Method by which RCRA waste is received (check all the	nat apply):
Truck Rail Dedicated Pipe	
11. Waste Description. Give EPA hazardous waste number and amount (vo	lume or mass, specify units).
EPA Hazardous Waste Number Amount	<u>Units</u>
ERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORF	RECTIVE ACTION
ASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:	
12. Remediation Waste. Does the treatment works currently (or has it been  Yes (complete F.13 through F.15.)  X No	
Provide a list of sites and the requested information (F.13 - F.15.) for each	current and future site.
Waste Origin. Describe the site and type of facility at which the CERCLA	
Waste Origin. Describe the site and type of facility at which the CERCLA	
.13. Waste Origin. Describe the site and type of facility at which the CERCLA	
<ul> <li>Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).</li> <li>Pollutants. List the hazardous constituents that are received (or are experted).</li> </ul>	/RCRA/or other remedial waste originates (or is expected to
Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).	/RCRA/or other remedial waste originates (or is expected to
<ul> <li>Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).</li> <li>Pollutants. List the hazardous constituents that are received (or are experted).</li> </ul>	/RCRA/or other remedial waste originates (or is expected to
<ul> <li>Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).</li> <li>Pollutants. List the hazardous constituents that are received (or are experiment).</li> </ul>	/RCRA/or other remedial waste originates (or is expected to
13. Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are experiment).  15. Waste Treatment.	/RCRA/or other remedial waste originates (or is expected to
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13. Waste Origin. Describe the site and type of facility at which the CERCLA originate in the next five years).  14. Pollutants. List the hazardous constituents that are received (or are experimentally additional sheets if necessary).  15. Waste Treatment.  a. Is this waste treated (or will it be treated) prior to entering the treatment yesNo  If yes, describe the treatment (provide information about the removal or intermittent).	/RCRA/or other remedial waste originates (or is expected to cted to received). Include data on volume and concentration, if ent works?  all efficiency):

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

# SLIDDI EMENTAL ADDI ICATION INFORMATION

EN		
	IERAL INFORMAT	TION:
1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	Treat cannelle (10g	and boos the deathern works have, or is a subject to, an approved predeathern program?
	X Yes	No ·
2.	Number of Significa	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
	industrial users that	discharge to the treatment works.
	a. Number of r	non-categorical SIUs. 19
	b. Number of 0	CIUs. <u>22</u>
GI	NIFICANT INDUST	TRIAL USER INFORMATION:
		mation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 an
		quested for each SIU.
3.	Significant Industri	ial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additiona
	pages as necessary	
	Name:	Salem Water Filtration Plant
	Mailing Address:	4200 Tidouates Street
	Mailing Address:	1300 Tidewater Street
	Mailing Address:	1300 Tidewater Street Salem, VA 24153
4		Salem, VA 24153
4.	Industrial Processe	
4.		Salem, VA 24153
	Industrial Processe Water Treatment Principal Product(s	Salem, VA 24153
	Industrial Processe Water Treatment	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processe Water Treatment  Principal Product(s discharge.	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processe Water Treatment Principal Product(s	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water
	Industrial Processe Water Treatment  Principal Product(s discharge.	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
4. 5.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water
	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall
5.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.
5.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.
5.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpod 133,100)  b. Non-process	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.
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5.	Industrial Processes Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 133,100  b. Non-process system in ga	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (continuous orXintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
5. 6.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 133,100  b. Non-process system in ga 260	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (continuous orXintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.
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5.	Industrial Processe Water Treatment  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd 133,100) b. Non-process system in ga 260  Pretreatment Standa. Local limits	es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Drinking Water  DELPAC, Fluorosilicic Acid, Chlorine (gas)  stewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (continuous orintermittent)  s wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection allons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (continuous or intermittent)

Manta	Water Authority Water Balletian Co	and al Plant Manager	Form Approved 1/14/99
veste	n Virginia Water Authority Water Pollution Co		OMB Number 2040-0086 Has the SIU caused or contributed to any problems (e
.8.	upsets, interference) at the treatment works in t		rias the ore saused or contributed to any problems (e
	Yes X No If yes, d	lescribe each episode.	
CDA	HAZARDOUS WASTE RECEIVED BY TR	UCK BAIL OF DEDICATED D	DELINE.
CKA	HAZARDOOS WASTE RECEIVED BY TR	OCK, RAIL, OR DEDICATED P	IPELINE:
.9.		ve or has it in the past three years re-	ceived RCRA hazardous waste by truck, rail, or dedica
	pipe?		
	YesX No (go to F.12.)		
.10.	Waste Transport. Method by which RCRA was		
	TruckRail	Dedicated Pipe	
340			
.11.	Waste Description. Give EPA hazardous wast		
	EPA Hazardous Waste Number	Amount	<u>Units</u>
	<u> </u>	The state of the s	
EDC	LA (SUPERFUND) WASTEWATER, RCRA	DEMEDIATION/CORRECTIVE	ACTION
		4 REINEDIA HUN/CURRECHIVE	ACTION
VAST	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)	vity wastewater:  s currently (or has it been notified the	at it will) receive waste from remedial activities?
.12.	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information.	is currently (or has it been notified that  X No ation (F.13 - F.15.) for each current at	at it will) receive waste from remedial activities?
.12.	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of face	is currently (or has it been notified that  X No ation (F.13 - F.15.) for each current at	at it will) receive waste from remedial activities?  Ind future site.
.12.	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of face	is currently (or has it been notified that  X No ation (F.13 - F.15.) for each current at	at it will) receive waste from remedial activities?  Ind future site.
.12.	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested information  Waste Origin. Describe the site and type of face	is currently (or has it been notified that  X No ation (F.13 - F.15.) for each current at	at it will) receive waste from remedial activities?  Ind future site.
.12. .13.	Remediation Waste. Does the treatment work Yes (complete F.13 through F.15.) Provide a list of sites and the requested informat Waste Origin. Describe the site and type of facoriginate in the next five years).	Is currently (or has it been notified thatXNo ation (F.13 - F.15.) for each current and cility at which the CERCLA/RCRA/or	at it will) receive waste from remedial activities?  Ind future site.  Other remedial waste originates (or is expected to
.12. .13.	Remediation Waste. Does the treatment work Yes (complete F.13 through F.15.) Provide a list of sites and the requested informate waste Origin. Describe the site and type of facoriginate in the next five years).  Pollutants. List the hazardous constituents that	Is currently (or has it been notified thatXNo ation (F.13 - F.15.) for each current and cility at which the CERCLA/RCRA/or	at it will) receive waste from remedial activities?  Ind future site.
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	Remediation Waste. Does the treatment work  Yes (complete F.13 through F.15.)  Provide a list of sites and the requested informate waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated)  YesNo	s currently (or has it been notified that	at it will) receive waste from remedial activities?  Ind future site.  other remedial waste originates (or is expected to ecived). Include data on volume and concentration, if
:.12. :.13.	Remediation Waste. Does the treatment work Yes (complete F.13 through F.15.) Provide a list of sites and the requested informate waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) Yes No If yes, describe the treatment (provide information)	Is currently (or has it been notified that	at it will) receive waste from remedial activities?  Ind future site.  other remedial waste originates (or is expected to ecived). Include data on volume and concentration, if
:.12. :.13.	Remediation Waste. Does the treatment work Yes (complete F.13 through F.15.) Provide a list of sites and the requested information waste Origin. Describe the site and type of factoriginate in the next five years).  Pollutants. List the hazardous constituents that known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be treated) Yes No If yes, describe the treatment (provide information).	s currently (or has it been notified that	at it will) receive waste from remedial activities?  Ind future site.  other remedial waste originates (or is expected to ceived). Include data on volume and concentration, if

2A YOU MUST COMPLETE

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

FACILITY NAME AND PERMIT NUMBER:

Western Virginia Water Authority Water Pollution Control Plant; VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

### SUPPLEMENTAL APPLICATION INFORMATION

	IERAL INFORMAT	TION:
1.	Pretreatment Progr	am. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
2.	Number of Significan	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of
		discharge to the treatment works.
	a. Number of no	on-categorical SIUs. 19
	b. Number of C	IUs. <u>22</u>
Ch	UEICANT INDUST	RIAL USER INFORMATION:
		NIAL USER INFORMATION: nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 ar
	de the information req	
3.	Cinnificant Industri	
•	pages as necessary.	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additions
	Name:	Virginia Transformer Corporation
	Mailing Address:	220 Glade View Drive, N.E.
	Mailing Address:	220 Glade View Drive, N.E. Roanoke, VA 24012
	Mailing Address:	
4.		
4.		Roanoke, VA 24012
	Industrial Processe Phosphatizing	Roanoke, VA 24012  S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
4.	Industrial Processe Phosphatizing	Roanoke, VA 24012
	Industrial Processe Phosphatizing Principal Product(s)	Roanoke, VA 24012  S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processe Phosphatizing Principal Product(s)	Roanoke, VA 24012  S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Industrial Processe Phosphatizing  Principal Product(s discharge.	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processe Phosphatizing  Principal Product(s discharge.	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Industrial Processe Phosphatizing  Principal Product(s discharge.  Principal product(s):	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents
	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was:	Roanoke, VA 24012  S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gal
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd)	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall) and whether the discharge is continuous or intermittent.
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was:	Roanoke, VA 24012  S. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gal
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 4,000  b. Non-process	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd  (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was: per day (gpd) 4,000  b. Non-process system in gal	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 4,000  b. Non-process	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd  (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
5.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 4,000  b. Non-process system in gal 1,200	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection flons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
5.	Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 4,000  b. Non-process system in gal 1,200  Pretreatment Standa	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection llons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)  ards. Indicate whether the SIU is subject to the following:
i.	Industrial Processe Phosphatizing  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 4,000  b. Non-process system in gal 1,200  Pretreatment Standa a. Local limits	Roanoke, VA 24012  s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Electrical Transformers  Aluminum, Copper, Steel Stainless Steel, dry insulation, fiberglass, wood, transformer oil, varnish, paints, solvents  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (Xcontinuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection flons per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)

	TY NAME AND PERMIT					Form Approved 1/14/99
Veste	n Virginia Water Autho		A STATE OF THE PARTY OF THE PAR			OMB Number 2040-0086
	Problems at the Treatr	ment Works Attribu	ted to Waste Disc	harged by the SIU. H	as the SIU caused o	r contributed to any problems (
.8.	upsets, interference) at					
	YesX N	io if yes	s, describe each ep	oisode.		
				AN TONICAL THE 1977		
CRA	HAZARDOUS WAST	F RECEIVED BY	TRUCK RAIL C	R DEDICATED PIP	FI INF:	
-	THE THE COO THAT	E RECEIVED DI	TROOM, TOTAL, C	REDICATEDITI	CLINC.	
9.		e treatment works re-	ceive or has it in th	e past three years rece	eived RCRA hazardo	us waste by truck, rail, or dedic
	pipe?					
	Yes	X No (go to F.1	2.)			
10.	Waste Transport. Met	hod by which RCRA	waste is received (	check all that apply):		
	Truck	Rail	Dedicat	ed Pipe		
11.	Waste Description. Gi	ve EPA hazardous v	vaste number and a	amount (volume or mas	ss, specify units).	
	EPA Hazardous Waste	Number	Amount		Units	
			- The state of the			
		A CANADA				
					_	
EDC	LA (SUPERFUND) W	ACTEMATED DO	DA DEMEDIATI	ON/CORRECTIVE A	CTION	
					CHON	
AS		ER REMEDIAL AC	TIVITY WASTE	NATER.		
IAS	EWATER, AND OTHE	ER REMEDIAL AC	CTIVITY WASTE	WATER:		
					it will) receive waste	from remedial activities?
	Remediation Waste. D	Does the treatment w	orks currently (or h	as it been notified that	it will) receive waste	from remedial activities?
	Remediation Waste. D	Does the treatment w	orks currently (or h	as it been notified that		from remedial activities?
.12.	Remediation Waste. D	Does the treatment w	orks currently (or h	as it been notified that		from remedial activities?
.12.	Remediation Waste. D Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested infor	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	
.12.	Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested inforce the site and type of	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	from remedial activities?
.12.	Remediation Waste. D Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested inforce the site and type of	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	
12.	Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested inforce the site and type of	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	
.12.	Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested inforce the site and type of	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	
.12.	Yes (complete F. Provide a list of sites an	Does the treatment w 13 through F.15.) In the requested inforce the site and type of	rorks currently (or h	as it been notified that No  No  5.) for each current and	future site.	
.12.	Yes (complete F. Provide a list of sites an  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) Ind the requested information of the site and type of years).	rmation (F.13 - F.15)	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	
12.	Yes (complete F. Provide a list of sites an  Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
113.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five	Does the treatment w 13 through F.15.) In the requested information of the site and type of years).	rmation (F.13 - F.15)  If facility at which the	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment.	Does the treatment was 13 through F.15.) and the requested informed the site and type of years).	rmation (F.13 - F.15)  If facility at which the that are received (cry).	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or ot	future site.	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an  Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment.  a. Is this waste treat	Does the treatment with 13 through F.15.) and the requested informethe the site and type of years).	rmation (F.13 - F.15)  If facility at which the that are received (cry).	as it been notified that No 5.) for each current and e CERCLA/RCRA/or of or are expected to rece	future site.	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment. a. Is this waste treat Yes	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or of or are expected to recent the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment. a. Is this waste treat Yes	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No 5.) for each current and e CERCLA/RCRA/or of or are expected to rece	ther remedial waste of the remedial waste of	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment. a. Is this waste treat Yes	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or of or are expected to recent the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
113.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment. a. Is this waste treat Yes	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or of or are expected to recent the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
.12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five  Pollutants. List the haz known. (Attach addition  Waste Treatment. a. Is this waste treat Yes	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No  No  5.) for each current and e CERCLA/RCRA/or of or are expected to recent the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.  a. Is this waste treat Yes If yes, describe the	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of years).  The property of the treatment w  T	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No 5.) for each current and e CERCLA/RCRA/or of or are expected to receive the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
12.	Yes (complete F. Provide a list of sites an Waste Origin. Describe originate in the next five Pollutants. List the haz known. (Attach addition Waste Treatment.  a. Is this waste treat Yes If yes, describe the	Does the treatment w 13 through F.15.) Ind the requested inform the the site and type of the years).  It is a site and type of the years.  It is a site and type of the years.  It is a site and type of the years.  It is a site and type of the years.  It is a site and type of the years.  It is a site and type of the years.	rmation (F.13 - F.15  f facility at which the that are received (cry).	as it been notified that No 5.) for each current and e CERCLA/RCRA/or of or are expected to rece the treatment works?	ther remedial waste of the remedial waste of	originates (or is expected to
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**2A YOU MUST COMPLETE** 

FACILITY NAME AND PERMIT NUMBER:

Western Virginia Water Authority Water Pollution Control Plant; VA0025020 Form Approved 1/14/99

OMB Number 2040-0086

### SUPPLEMENTAL APPLICATION INFORMATION

M	ERAL INFORMA	TION:						
	Pretreatment Prog	ram. Does the treatment wo	rks have or is it	subject to ar	annroved n	etreatment or	ogram?	
			and have, or lone	oubject to, ui	approved pr	cacaanent pi	ogram:	
	X Yes	No						
	Number of Significa industrial users that	nt Industrial Users (SIUs) and discharge to the treatment w	d Categorical Ind	ustrial Users	(CIUs). Prov	vide the numb	er of each of t	he following types o
	a. Number of r	non-categorical SIUs.	19					
	b. Number of 0	CIUs.	22					
N	IIFICANT INDUS	RIAL USER INFORM	ATION:					Distriction in
		mation for each SIU. If mo	The state of the s	discharges	to the treatm	ent works, c	opy question	s F.3 through F.8 a
		quested for each SIU.						
	Significant Industr	ial User Information. Provid	de the name and	address of e	ach SIU disc	harging to the	treatment wo	rks. Submit addition
	pages as necessary							
	Name:	Veterans Administration	n Medical Cente	r			77 11 11 11	
	Mailing Address	1970 Poznoka Poulova	rd					
	Mailing Address:	1970 Roanoke Bouleval	rd				The state of the s	
	Industrial Processe	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet	trial processes th	at affect or co	ontribute to th	ne SIU's disch	arge.	
	Industrial Processor General Medical ar Principal Product(s	Salem, VA 24153 es. Describe all of the indust	trial processes the				H Sa	ntribute to the SIU's
	Industrial Processo	Salem, VA 24153 es. Describe all of the indust d Surgical Hospital for Vet	trial processes the				H Sa	ntribute to the SIU's
	Industrial Processor General Medical ar Principal Product(s	Salem, VA 24153 es. Describe all of the indust od Surgical Hospital for Vet e) and Raw Material(s). Des	trial processes the				H Sa	ntribute to the SIU's
	Industrial Processor General Medical ar Principal Product(s discharge.	Salem, VA 24153 es. Describe all of the indust od Surgical Hospital for Vet e) and Raw Material(s). Des	trial processes the				H Sa	ntribute to the SIU's
	Industrial Processor General Medical ar Principal Product(s discharge.	Salem, VA 24153 es. Describe all of the indust od Surgical Hospital for Vet e) and Raw Material(s). Des	trial processes the terans, Laundry scribe all of the p	rincipal proce	esses and rav	v materials tha	at affect or con	
	Industrial Processe General Medical ar  Principal Product(s discharge.  Principal product(s):  Raw material(s):	Salem, VA 24153 es. Describe all of the indust od Surgical Hospital for Vet a) and Raw Material(s). Des	trial processes the terans, Laundry scribe all of the p	rincipal proce	esses and rav	v materials tha	at affect or con	
	Industrial Processe General Medical ar  Principal Product(s discharge.  Principal product(s):  Raw material(s):	Salem, VA 24153 es. Describe all of the indust of Surgical Hospital for Vet and Raw Material(s). Des	trial processes the terans, Laundry scribe all of the pro-	rincipal proce	esses and rav	v materials the	at affect or cor	ftner
	Industrial Processe General Medical ar  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153 es. Describe all of the indust od Surgical Hospital for Vet a) and Raw Material(s). Des	trial processes the terans, Laundry scribe all of the processes and the processes are the processes and the processes are the processes ar	inhibitors, o	esses and rav	v materials the	at affect or cor	ftner
	Industrial Processe General Medical ar  Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  a) and Raw Material(s). Describe all of the indust of Surgical Hospital for Vet  N/A  Acids, Alkali's, bio material (s) and whether the discharge	trial processes the terans, Laundry scribe all of the processes and the processes are all of the	inhibitors, o	esses and rav	v materials the	at affect or cor	ftner
	Industrial Processe General Medical ar  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpoductor)  0  b. Non-process	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  a) and Raw Material(s). Describe all of the indust of Surgical Hospital for Vet  N/A  Acids, Alkali's, bio material (s) and whether the discharge	erials, corrosion the average daily is continuous or interest and interest and interest and interest are the average of attention and interest and interest and interest are the average of attention and interest an	inhibitors, volume of prointermittent.	detergents, I	v materials the	at affect or cor	ftner lection system in ga
	Industrial Processe General Medical ar  Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpoductor)  0  b. Non-process	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  and Raw Material(s). Des   N/A  Acids, Alkali's, bio mate of the indust of the industrial for Vet  N/A  Acids, Alkali's, bio mate of the industrial for Vet  It was the in	erials, corrosion the average daily is continuous or interest and interest and interest and interest are the average of attention and interest and interest and interest are the average of attention and interest an	inhibitors, ovolume of prointermittent. termittent) daily volume of e is continuous	detergents, I	v materials the	at affect or cor	ftner lection system in ga
	Industrial Processing General Medical ar  Principal Product(statischarge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (good of the content	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  and Raw Material(s). Des   N/A  Acids, Alkali's, bio mate of the indust of the industrial for Vet  N/A  Acids, Alkali's, bio mate of the industrial for Vet  It was the in	erials, corrosion the average daily is continuous orinterest in the average of the the average of the the average of the the discharge of the the discharge of the average of the the discharge of the average of the	inhibitors, ovolume of prointermittent. termittent) daily volume of e is continuous	detergents, I	v materials the	at affect or cor	ftner lection system in ga
	Industrial Processe General Medical ar  Principal Product(statischarge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus)  0  b. Non-process system in gata 136,000	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  and Raw Material(s). Des   N/A  Acids, Alkali's, bio mate of the indust of the industrial for Vet  N/A  Acids, Alkali's, bio mate of the industrial for Vet  It was the in	trial processes the terans, Laundry scribe all of the processes and the processes all of the	inhibitors, ovolume of prointermittent. termittent) daily volume of e is continuous intermittent)	detergents, I	v materials the	at affect or cor	ftner lection system in ga
	Industrial Processe General Medical ar  Principal Product(statischarge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpodus)  0  b. Non-process system in gata 136,000	Salem, VA 24153  es. Describe all of the indust of Surgical Hospital for Vet  and Raw Material(s). Describe and Raw Material(s	trial processes the terans, Laundry scribe all of the processes and the processes all of the	inhibitors, volume of prointermittent. termittent) daily volume e is continuou intermittent)	detergents, I	v materials the	at affect or cor	ftner lection system in ga

OIL	ITY NAME AND PERM	III NOWIDER.			orm Approved 1/14/99
este	rn Virginia Water Aut	hority Water Pollution	Control Plant; VA0025020	0	MB Number 2040-0086
7916	Problems at the Tre	atment Works Attribut	ted to Waste Discharged by the SIU.	Has the SIU caused or c	ontributed to any problems (
3.	upsets, interference)	at the treatment works	in the past three years?		
	Yes X	No If yes	s, describe each episode.		
351					
RA	HAZARDOUS WAS	STE RECEIVED BY	TRUCK, RAIL, OR DEDICATED I	PIPELINE:	
	RCRA Waste. Does pipe?	the treatment works rec	ceive or has it in the past three years r	eceived RCRA hazardous	waste by truck, rail, or dedic
		V N. (			
	res	X No (go to F.1)	(2.)		
0.	Waste Transport. M	lethod by which RCRA	waste is received (check all that apply	):	
	Truck	Rail	Dedicated Pipe		
1.	Waste Description.	Give EPA hazardous w	waste number and amount (volume or i	mass specify units)	
	EPA Hazardous Was				
	LFA Flazardous Was	te Number	Amount	<u>Units</u>	
	I A (CUIDEDEUNIO)	WASTEWATED DO	CRA REMEDIATION/CORRECTIV	E ACTION	
RC	LA (SUPERFUND)	WASILWAILN, NO	THA INCIDIATION CONTROL		
			CTIVITY WASTEWATER:		
ST	TEWATER, AND OT	HER REMEDIAL AC	CTIVITY WASTEWATER:	nat it will) receive waste fro	om remedial activities?
ST	Remediation Waste.	Does the treatment we	orks currently (or has it been notified to	nat it will) receive waste fro	om remedial activities?
ST	Remediation Waste.  Yes (complete	Does the treatment with F.13 through F.15.)	vorks currently (or has it been notified to		om remedial activities?
	Remediation Waste.  Yes (complete	Does the treatment with F.13 through F.15.)	orks currently (or has it been notified to		om remedial activities?
2.	Remediation Waste.  Yes (complete Provide a list of sites	Does the treatment were F.13 through F.15.) and the requested information	vorks currently (or has it been notified to  X No rmation (F.13 - F.15.) for each current	and future site.	
2.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Descri	Does the treatment were F.13 through F.15.) and the requested informible the site and type of	vorks currently (or has it been notified to	and future site.	
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2.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Description originate in the next fi	Does the treatment were F.13 through F.15.) and the requested informibe the site and type of tive years).	vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current of facility at which the CERCLA/RCRA/d	and future site.	ginates (or is expected to
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3. 4.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Description originate in the next fi	Does the treatment were F.13 through F.15.) and the requested informibe the site and type of tive years).	vorks currently (or has it been notified to	and future site.	ginates (or is expected to
1 <u>87</u> 2.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Descroriginate in the next fi	Does the treatment were F.13 through F.15.) and the requested informibe the site and type of tive years).	vorks currently (or has it been notified to	and future site.	ginates (or is expected to
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1 <u>87</u> 2.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Descroriginate in the next fi	HER REMEDIAL AC  Does the treatment were first through F.15.) and the requested informibe the site and type of the years).	corks currently (or has it been notified to	and future site.  If other remedial waste original control of the	ginates (or is expected to
1 <u>87</u> 2.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Descroriginate in the next fi	Does the treatment were f.13 through F.15.) and the requested informibe the site and type of the years).	crivity wastewater:  orks currently (or has it been notified to a large of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of facility at which the CERCLA/RCRA/decorated of the current of the curren	and future site.  If other remedial waste original control of the	ginates (or is expected to
1 <u>87</u> 2.	Remediation Waste.  Yes (complete Provide a list of sites  Waste Origin. Descroriginate in the next fi	Does the treatment were f.13 through F.15.) and the requested informibe the site and type of the years).	corks currently (or has it been notified to	and future site.  If other remedial waste original control of the	ginates (or is expected to
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3. 4.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Description originate in the next fit  Pollutants. List the known. (Attach additional states)  Waste Treatment.  a. Is this waste treatment. If yes, describes	Does the treatment were first through F.15.) and the requested informibe the site and type of tive years).  The stream of the site and type of tive years).  The stream of the site and type of tive years).	corks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current of facility at which the CERCLA/RCRA/detail that are received (or are expected to received) prior to entering the treatment works information about the removal efficient	and future site.  If other remedial waste original control of the	ginates (or is expected to
AST	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Descroriginate in the next fi  Pollutants. List the rknown. (Attach additional sites)  Waste Treatment. a. Is this waste treatment. Jes If yes, described.	Does the treatment were first through F.15.) and the requested informibe the site and type of tive years).  The accordance of the site and type of tive years).  The accordance of the site and type of tive years).  The accordance of the site and type of tive years).	crivity wastewater:  vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current of facility at which the CERCLA/RCRA/decelor that are received (or are expected to receive).  ethat are received (or are expected to receive).	and future site.  If other remedial waste original control of the	ginates (or is expected to
3. 4.	Remediation Waste. Yes (complete Provide a list of sites  Waste Origin. Description originate in the next fit  Pollutants. List the known. (Attach additional states)  Waste Treatment.  a. Is this waste treatment. If yes, describes	Does the treatment were first through F.15.) and the requested informibe the site and type of tive years).  The accordance of the site and type of tive years).  The accordance of the site and type of tive years).  The accordance of the site and type of tive years).	crivity wastewater:  vorks currently (or has it been notified the X No rmation (F.13 - F.15.) for each current of facility at which the CERCLA/RCRA/decelor that are received (or are expected to receive).  ethat are received (or are expected to receive).	and future site.  If other remedial waste original control of the	ginates (or is expected to

**2A YOU MUST COMPLETE** 

FACILITY NAME AND PERMIT NUMBER:

Western Virginia Water Authority Water Pollution Control Plant;

VA0025020

Form Approved 1/14/99

OMB Number 2040-0086

## SUPPLEMENTAL APPLICATION INFORMATION

-11	IERAL INFORMAT	TION:
.1.	Pretreatment Progr	ram. Does the treatment works have, or is it subject to, an approved pretreatment program?
	X Yes	No
2.	Number of Significan	nt Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types o discharge to the treatment works.
		on-categorical SIUs. 19
	b. Number of C	CIUs. 22
IGN	NIFICANT INDUST	RIAL USER INFORMATION:
upp	ly the following inform	nation for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 a
OVI	de the information rec	quested for each SIU.
3.	Significant Industria	al User Information. Provide the name and address of each SIU discharging to the treatment works. Submit addition
	pages as necessary.	
	Name:	Yokohoma Tire Corporation
	Mailing Address:	1500 Indiana Street
		Salem, VA 24153
	Industrial Processes	Salem, VA 24153
4.		Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
4.		Salem, VA 24153
.4.	Mixing, Milling, Cal	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.
	Mixing, Milling, Cale	Salem, VA 24153 es. Describe all of the industrial processes that affect or contribute to the SIU's discharge. endering, Extruding
	Mixing, Milling, Cale Principal Product(sidischarge.	s. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's
	Principal Product(s discharge.  Principal product(s):	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  e) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires
	Mixing, Milling, Cald Principal Product(s) discharge.  Principal product(s):  Raw material(s):	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel
.5.	Mixing, Milling, Cald Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in galaxy.
.5.	Mixing, Milling, Cald Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel
.5.	Mixing, Milling, Cale Principal Product(s discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd) 58,800	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (X_continuous or intermittent)
5.	Mixing, Milling, Cald Principal Product(sicharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wasiper day (gpd) 58,800  b. Non-process	Salem, VA 24153  es. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gail and whether the discharge is continuous or intermittent.
5.	Mixing, Milling, Cald Principal Product(sicharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wasiper day (gpd) 58,800  b. Non-process	ss. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallo and whether the discharge is continuous or intermittent.  gpd (X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection
<b>5</b> .	Mixing, Milling, Cald Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wasiper day (gpd) 58,800  b. Non-process system in gal 14,250	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lions per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)
5. 6.	Principal Product(s):  Principal Product(s):  Raw material(s):  Flow Rate. a. Process was per day (gpd)  58,800  b. Non-process system in gal  14,250  Pretreatment Standa	ss. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lions per day (gpd) and whether the discharge is continuous or intermittent.  gpd (_X_continuous orintermittent)  ards. Indicate whether the SIU is subject to the following:
5.	Mixing, Milling, Cald Principal Product(s) discharge.  Principal product(s):  Raw material(s):  Flow Rate. a. Process wast per day (gpd) 58,800  b. Non-process system in gal 14,250  Pretreatment Standa a. Local limits	Salem, VA 24153  as. Describe all of the industrial processes that affect or contribute to the SIU's discharge.  endering, Extruding  and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's  Automobile and Light Truck Tires  Natural and synethic rubber, process oils, carbon black, miscellaneous chemical additives, fabric, and steel  tewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gall and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)  wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection lions per day (gpd) and whether the discharge is continuous or intermittent.  gpd (Xcontinuous or intermittent)

	ITY NAME AND PERMIT NUMBER:		Form Approved 1/14/99
Veste	rn Virginia Water Authority Water Poll		OMB Number 2040-0086
.8.	upsets, interference) at the treatment w	tributed to Waste Discharged by the SIU. H	las the SIU caused or contributed to any problems (
		If yes, describe each episode.	
		ii yes, describe each episode.	
CRA	HAZARDOUS WASTE RECEIVED	BY TRUCK, RAIL, OR DEDICATED PIP	PELINE:
.9.	RCRA Waste. Does the treatment work	ks receive or has it in the past three years rece	eived RCRA hazardous waste by truck, rail, or dedic
	pipe?		
	Yes X No (go to	o F.12.)	
.10.	Waste Transport. Method by which RO	CRA waste is received (check all that apply):	
	TruckRail	Dedicated Pipe	
.11.	Waste Description. Give EPA hazardo	ous waste number and amount (volume or mas	ss, specify units).
	EPA Hazardous Waste Number	Amount	Units
	THE RESIDENCE OF THE PARTY OF T		
EDC	LA (CLIDEDELIND) WACTEWATED	DODA DEMEDIATION/OODDECTIVE	
ERU	LA (SUPERFUND) WAS IEWATER		
		, RCRA REMEDIATION/CORRECTIVE A	ACTION
	EWATER, AND OTHER REMEDIAL		ACTION
VAST	EWATER, AND OTHER REMEDIAL	L ACTIVITY WASTEWATER:	
VAST	Remediation Waste. Does the treatment	L ACTIVITY WASTEWATER: ent works currently (or has it been notified that	
VAST	Remediation Waste. Does the treatme Yes (complete F.13 through F.15	ent works currently (or has it been notified that  XNoNo	it will) receive waste from remedial activities?
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.12. .13.	Remediation Waste. Does the treatment Yes (complete F.13 through F.15 Provide a list of sites and the requested Waste Origin. Describe the site and typoriginate in the next five years).  Pollutants. List the hazardous constitut known. (Attach additional sheets if necessary).  Waste Treatment.  a. Is this waste treated (or will it be the state of the stat	ent works currently (or has it been notified that it.)  X No I information (F.13 - F.15.) for each current and pe of facility at which the CERCLA/RCRA/or of the current and t	it will) receive waste from remedial activities?  If future site.  ther remedial waste originates (or is expected to eived). Include data on volume and concentration, if
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REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE

## VPDES PERMIT APPLICATION ADDENDUM - SUPPLEMENTARY INFORMATION

Α.	Ge	eneral Information
	1.	Entity to whom the permit is to be issued: <b>Western Virginia Water Authority</b> Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner.
	2.	Classify the discharge as one of the following by checking the appropriate line:
		x a. Existing discharge
		b. Proposed discharge
		c. Proposed expansion of an existing discharge
B.	Lo	<u>cation</u>
	1.	Is this facility located within city or town boundaries? N
	2.	(New Issuances & Modifications Only) What is the tax map parcel number for the land where this facility is located? N/A
	3.	For the facility to be covered by this permit, how many acres will be disturbed during the next five years due to new construction activities? 5 (estimated)
	4.	What is the total acreage of the property on which the treatment plant is located? Acres
	5.	Give the minimum elevation of the treatment plant site877.5 feet
	6.	Flood elevations of the treatment plant site:  25 year flood 907 feet  100 year flood 912 feet
	7.	Attach to the back of this application a location map(s) which may be traced from or is/are a production of a U.S. Geological Survey topographic quadrangle(s) or other appropriately scaled contour map(s). The location map(s) shall show the following:  See Attached Site Location Map and Facility Layout Map  a. Treatment Plant
		<ul><li>b. Discharge point</li><li>c. Receiving waters</li></ul>
		d. Boundaries of the property on which the treatment plant is located, or to be located.
		e. Distance from the treatment plant to the nearest: (Indicate "not applicable" for any distance greater
		than 2000 feet)
		<ul> <li>ii. Residence 100 feet</li> <li>iii. Distribution line for potable water supply On Property</li> <li>iv. Reservoir, well, or other source of water supply Not Applicable</li> <li>v. Recreational area 700 feet (Walking Trail)</li> </ul>
		<ul> <li>f. Distance from the discharge point to the nearest (Indicate "not applicable" for any distance greater than 15 miles)</li> <li>ii. Downstream community 5.6 miles (Smith Mountain Lake residences)</li> <li>iii. Upstream and downstream water intake points Not Applicable</li> <li>iv. Shellfishing waters Not Applicable</li> </ul>
		v. Wetlands area Not Applicable
		vi. Downstream impoundment 1.7 miles (Niagara Impoundment) vii. Downstream recreational area 5.6 miles (Smith Mountain Lake)

Addendum -	Supplementary	Information
Page 2 of 3		

C.	Discharge	Description

 Provide a brief description of the wastewater treatment scheme. Also, attach to the back of this application, a process flow diagram showing each process unit of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system.

See Attachment B.3 and Process Flow Diagrams

2. What is the design average flow of this facility?	
any other discharge flow tiers or production levels?  If "Yes", please specify the other flow tiers (in MGD) or production levels:  Please consider: Is your facility's design flow considerably greater than your current flow?  plan to expand operations during the next five years?  Nature of operations generating wastewater: POTW  85% of flow from domestic connections/sources  Number of private residences to be served by the wastewater treatment facilities:	
Please consider: Is your facility's design flow considerably greater than your current flow?  plan to expand operations during the next five years?  Nature of operations generating wastewater: POTW	limits for
	Do you
Number of private residences to be served by the wastewater treatment facilities:	
Potential wet weather discharges from Outfall 003 (EQ Basin Overflow) and Outfall 010 (Influent Pump Station Bypass)	
6. Identify the characteristics of the receiving stream at the point just above the facility's opoint:  X Permanent stream, never dry Intermittent stream, usually flowing, sometimes dry Ephemeral stream, wet-weather flow, often dry Effluent-dependent stream, usually or always dry Lake or pond at or below the discharge point Other:	ischarge

).	Anticipated Phasing	Schedule for Plant	Canacity - Proposed	Expanding Discharges
	rintiolpated i masing	Concade for Flank	Capacity - 1 Toposeu/	LAPAHUHIU DISCHALUES

If this application is for a proposed or expanded discharge(s), complete the phasing schedule below beginning with the year in which construction completion is anticipated and progressing in increments of 5 years for 30 years thereafter.

Proposed Design Capacity 62 MGD			
Anticipated Date of Construction Completion:			
	Month	Year	
Years after Completion	Projected Flov	v (MGD)	
0	38		
5	40		
10	40		
15 20	45		
25	45 50		
30	50		
Interim Facilities			
Are the wastewater treatment facilities interim? (design	ed for a useful life of less	s than 5 years)	
Yes <u>X</u> No			
If so, provide the estimated date to be discontinued (moname and location of the intended replacement facility.			, and the
Name / Location		<u>-</u>	

Form Approved.

Please print or type in the unshaded areas only

#### VA0025020

OMB No. 2040-0086. Approval expires 8-31-98.





United States Environmental Protection Agency
Washington, DC 20460

#### Application for Permit To Discharge Stormwater Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

. Outfall Location	Military.	STREET,	MANAGE TO	THE REAL PROPERTY.	, SERVIN	MANUE		COURSE NO.	
For each outfall, list the latitude	each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.  A. Outfall Number (list)  B. Latitude  C. Longitude  D. Receiving Water (name)  O08 37° 16' 00" 79° 54' 11" Roanoke River  O09 37° 16' 00" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  In Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River  O11 37° 15' 59" 79° 54' 18" Roanoke River		1 1 1 1 1 1						
A. Outfall Number						4056	D. Receiving V	Vater	
008	37°	16'	00"	79°	54'	11"	Roanoke R	River	
009	37°	16'	00"	79°	54'	08"	Roanoke R	River	WATE
011	37°	15'	59"	79°	54'	18"	Roanoke R	River	
Partition Street									
				25		30.89			
		2000				and the second			
			10,00						
		200 200							
Improvemente									
equipment or practices or any conditions, administrative or e	other environment enforcement orde	ental program	ms which m nent compli	ay affect the ance sched	discharges	s described	in this application? This includes, but is i	not limited to, per s. None 4. I	Final nce Date
Agreements, Etc.		number	sou	rce of discha	arge		Brief Description of Project	a. req.	b. proj.
						N. S. W.			NAME OF
					1000	1/3/62			
		-				1000			1.4
					A GUIN	-			
	Market S	100							
			DE 180	SIRA II					
				Carl I		NB W			
			1000	NEW Y		139			1000

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

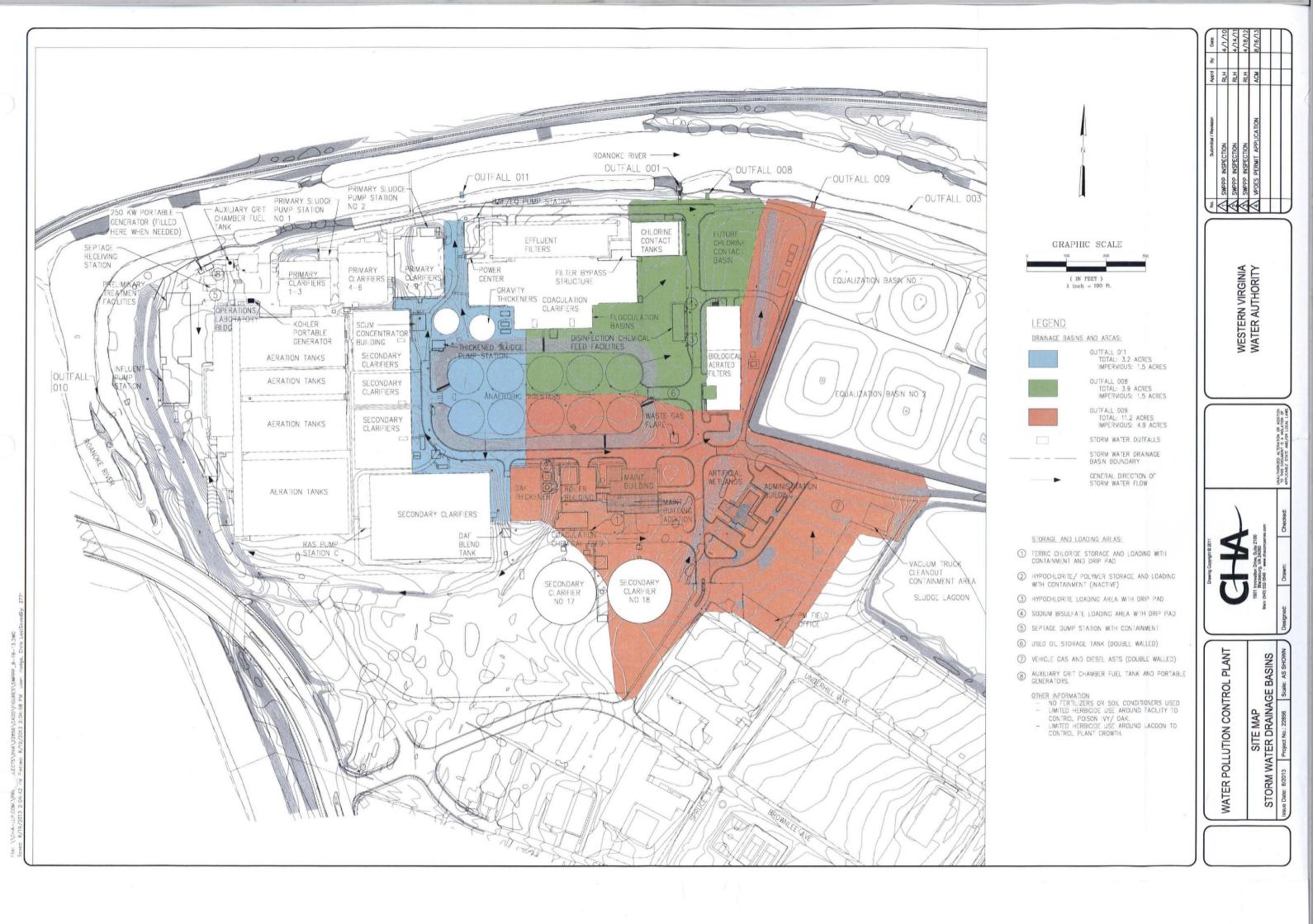
#### III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each know past or present areas used for outdoor storage or disposal of significant materials, each existing structural control measure to reduce pollutants in storm ter runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or bosal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the racility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility.

See Attached Site Map & Storm Water Drainage Map.

# ATTACHMENT IV-A STORM WATER DRAINAGE BASINS





A.	om the Front				
A.					
Outrail	ve Description of Pollutant Sources		MARKET STATE	<b>显然是图图图图图图图图</b>	THE PROPERTY OF
	For each outfall, provide an estimate of the of the total surface area drained by the output of the total surface area drained	e area (include units) of impervio utfall.	us surfaces (including pa	ved areas and building roofs) dra	ained to the outfall, and an estimat
lumber	(provide units)	Total Area Drained (provide units)	Number	Area or impervious Surface (provide units)	Total Area Drained (provide units)
008	1.5 acres	3.9 acres	011	2.3 acres	3.2 acres
009	4.9 acres	11.2 acres			0.2 40100
В.	Provide a narrative description or significate to storm water; method of treatment, stort these materials with storm water runoff; nand fertilizers are applied.	age, or disposal; past and present	materials management	practices employed, in the last th	ree years, to minimize contact by
oce Atta	chment IV B				
C.	For each outfall, provide the location an description of the treatment the storm wa any solid or fluid wastes other than by disc	ter receives, including the schedu charge.	le and type of maintenan	ontrol measures to reduce polluce for control and treatment mea	tants in storm water runoff; and a asures and the ultimate disposal of List Codes from
Number	per la destrucción de la companya de	Treati	ment		Table 2F-1
	See Attachment IV C				
V. Nonstor	mwater Discharges	fall(e) covered by this application			
۸.	I certify under penalty of law that the out nonstormwater discharges from these out	fall(s) are identified in either an ac	companying Form 2C or	Form 2E application for the outfa	tormwater discharges, and that a
MALE THE	Name and Official Title (type or print)			ature	Date Signed
Michael   Services	McEvoy, Executive Director, V	Vastewater Mie	loed J. 7	m Ey	8/21/13
B.	Provide a description of the method used,	the date of any testing, and the o	nsite drainage points that	were directly observed during a	test
2013 and	alls and associated conveyand no flows were observed fron ne and not discharging.	ce systems were obse n Outfall 011. Outfall 0	rved by Western 09 was discharg	Virginia Water Author ing and a sample was	ity staff on April 13, collected. Outfall 008
	ant Leaks or Spills	ficant leaks or spills of toxic or ha	zardous pollutants at the	a facility in the last three years, in	
Provide exist	ing information regarding the history of signi	aterial released			cluding the approximate date an
Provide existing cation of the	ing information regarding the history of signi e spill or leak, and the type and amount of mi ficant spills or leaks have occu	aterial released.	record and main	tain a list of all spills o	

ATTACHMENT IV-B
MATERIALS STORAGE



# WESTERN VIRGINIA WATER AUTHORITY VPDES PERMIT VA0025020 FORM 2F ATTACHMENT IV-B

<u>Part IV. Item B.</u> Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed, in the last three years, to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

The bulk chemicals utilized at the facility include the following: ferric chloride, sodium hypochlorite, diesel, sodium bisulfite, gasoline, and lubricants. The chemical storage areas for these chemicals have indoor storage or secondary containment and do not contact storm water. The diesel fuel is present in a regulated UST which has constant leak monitoring and is in full compliance with current regulations.

The potential exposure relates to the delivery areas for ferric chloride, ferrous chloride, sodium hypochlorite, and diesel fuel. This exposure is limited to a spill which might occur when these tanks are being filled. This is managed through spill response efforts as outlined within the storm water pollution prevention plan.

The facility does not utilize soil conditioners or fertilizers. The only pesticides utilized at the facility are for interior building spaces and pesticides which have received EPA approval as non-dangerous to aquatic life. The facility employs a state licensed pesticide applicator. Any use of pesticides is done by these employees. The employees follow all manufacturers' recommendations for the quantity and application methods applied.

The facility currently uses herbicides to kill poison oak and poison ivy in areas around the plant. The facility contracts the application of Garlon 3A to a commercial firm. The contract company also sprays Aqua Neat Aquatic Herbicide around the lagoons at the facility. The contract company follows best management practices during application of any herbicides at this facility.



ATTACHMENT IV-C
CONTROL MEASURES



# WESTERN VIRGINIA WATER AUTHORITY VPDES PERMIT VA0025020 FORM 2F ATTACHMENT IV-C

<u>Part IV. Item C.</u> For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall 008 This includes an area at the north of the property located between the Flocculation Basins and Biological Aerated Filters. The structural controls consist of a dedicated storm water conveyance system (grass-lined ditches and pipes), containment around the portable waste oil tank, and drip pads at the hypochlorite and bisulfite loading stations. Nonstructural controls consist of good housekeeping practices such as keeping the roads and conveyance system clean, conducting periodic inspections, and keeping pervious surfaces vegetated to minimize erosion. The storm water receives no treatment.

Treatment Code: 4-A

Outfall 009 This includes the eastern area of the facility: the Administration Building and Maintenance Building and the associated building roof drains, and extends west to the EQ Basins. The structural controls consist of a dedicated storm water conveyance system consisting of grass-lined ditches, pipes, and an artificial wetlands area that treats some of the storm water flow from this drainage area. In addition, there is containment around the ferric chloride, polymer, and hypochlorite tanks. Nonstructural controls consist of good housekeeping practices such as keeping the roads and conveyance system clean, conducting periodic inspections, and keeping pervious surfaces vegetated to minimize erosion.

Treatment Code: Partial wetlands treatment (no code) and 4-A

Outfall 011 This includes the area east of the Primary and Secondary Clarifiers, including the area surrounding the Scum Concentrator Building, Thickened Sludge Pump Station, and four of the Anaerobic Digesters. The structural controls consist of a dedicated storm water conveyance system consisting of grass-lined ditches and pipes. Nonstructural controls consist of good housekeeping practices such as keeping the roads and conveyance systems clean, conducting periodic inspections, and keeping pervious surfaces vegetated to minimize erosion. The storm water receives no treatment.

Treatment Code: 4-A



#### Continued from Page 2

#### VA0025020

Pis	scharge Information					Con The
A, B, C,	, & D: See instructions before proceed Tables VII-A, VII-B, and VII-C a	ding. Complete one set of tables for each or are included on separate sheets numbered \	utfall. Annotate the outfal	I number in	the space provided.	
E.	Potential discharges not covered by currently use or manufacture as an	analysis-is any pollutant listed in Table 2F-intermediate or final product or byproduct?		_		nich you
	Yes (list all such pollutants below)			X No (g	to to section VIII)	
VIII. Bi	ological Toxicity Testing Data					
Do you	have any knowledge or reason to beli	eve that any biological test for acute or chro	nic toxicity has been mad	e on any of	your discharges or on a re-	ceiving water
in relation	on to your discharge within the last 3 y	/ears?				
	Yes (list results below)			X No (g	o to Section IX)	
		performed by a contract laboratory or consist telephone number of, and pollutants analyzed		No (go	o to Section X)	
	A. Name	B. Address	C. Area Code & Pho	one No.	D. Pollutants Analy	zed
REI C	onsultants	225 Industrial Park Drive Beaver, WV 25813	(304) 255-2500		COD	
X. Cert	ification					
assure t those pe	that qualified personnel properly gath ersons directly responsible for gatheri	nent and all attachments were prepared un er and evaluate the information submitted. ing the information, the information submitted for submitting false information, including the	Based on my inquiry of to d is, to the best of my kno	he person o	or persons who manage the belief, true, accurate, and	ne system or
A. Name	& Official Title (type or print)			B. Area Coo	de and Phone No.	
Michae	el McEvoy, Executive Directo	or, Wastewater Services		(540) 85	53-1449	
atu	ure			D. Date Sig	ned	
	Michael I. 7	y Eus		8/21	113	
FPA Form						

#### VA0025020

VII. Discharge Information (Continued from page 3 of Form 2F)

Pollutant	(inclu	um Values ide units)	(include	e Values de units)	Number	Outfall 008
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	NA	NA	NA	NA	NA	
Biological Oxygen Demand (BOD5)	NA	NA	NA	NA	NA	
Chemical Oxygen Demand (COD)	NA .	NA	NA	NA	NA	This outfall has been disconnected due to
Total Suspended Solids (TSS)	NA	NA	NA	NA	NA	construction at the site. It w
Total Kjeldahl Nitrogen	NA	NA	NA	NA	NA	likely be out of service for tw years.
Nitrate plus Nitrite Nitrogen	NA	NA	NA	NA	NA	
Total Phosphorus	NA	NA	NA	NA	NA	
pH List each Part B- wastewar requirem	ter (if the facility is o	Maximum NA ited in an effluent guid perating under and exi	Minimum NA deline which the facility sting NPDES permit).	Maximum NA vis subject to or any Complete one table	pollutant listed for each outfall.	in the facility's NPDES permit for its proce See the instructions for additional details a
Pollutant	Maxim	um Values de units)		e Values	Number	
and CAS Number (if available)	Grab Sample Taken During First	Flow-weighted	Grab Sample Taken During First	Flow-weighted Composite	of Storm Events Sampled	
	Karanga Ta					
				- X		

Polluta	ant		Maximum Va (include un			Average (include	Values e units)	Number		Outfall	800
and CAS Nu (if availa	mber	Gra Tal First 30	ab Sample ken During Minutes	Flow-weighted Composite	Grab Sa Taken D First 3 Minute	mple uring 30	Flow-weighted Composite	of Storm Events Sampled		Sources of Po	ollutants
					Will to	FILL OF			N. Tig		
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		COR					Elim alternation	- 0			
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N-1744								T A THE			
									100		
						97					
7	NAME OF THE OWNER OWNER OF THE OWNER										
					Charles have						
	2000	dina.				- 651	100		W.		
Part D-	Provide data	a for the st	torm event(s) which r	resulted in the maximi	um values for t	he flow wei	ghted composite sar	mple.	The No.		96 76
1.	2.		3.	4. Number of ho		- 250	5.	6.	1970	7.	8.
te of Storm	Duration of		Total rainfall during storm even	boninning of			mum flow rate ng rain event	Total flow rain eve		Season	Form of Precipitation
Event	(in minu	tes)	(in inches)	ured and end			minute or specify	(gallons	or	sample was taken	(rainfall,
NA	NA		NA	measurable	rain event		units)	specify un	its)		snowmelt
	IVA		IVA	NA			NA	NA		NA	NA
4.7							Box (B.S.)			100	
	Tallous R										
Davids and									64.6		1
Provide a de	escription of	the metho	od of flow measureme	ent or estimate							
NA											

#### Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

#### VA0025020

#### VII. Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant	THE RESERVE OF THE PARTY OF THE	um Values ude units)		ge Values ide units)	Number	Outfall 009
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<2.0 mg/L	NA	<2.0 mg/L	NA	2	Surface Runoff
Biological Oxygen Demand (BOD5)	<5 mg/L	5 mg/L	<5 mg/L	5 mg/L	1	Surface Runoff
Chemical Oxygen Demand (COD)	27 mg/L	24 mg/L	27 mg/L	24 mg/L	1	Surface Runoff
Total Suspended Solids (TSS)	3.4 mg/L	44.3 mg/L	3.4 mg/L	44.3 mg/L	1	Surface Runoff
Total Kjeldahl Nitrogen	1.1 mg/L	1.1 mg/L	1.1 mg/L	1.1 mg/L	1	Surface Runoff
Nitrate plus Nitrite Nitrogen	0.59 mg/L	0.50 mg/L	0.59 mg/L	0.50 mg/L	1	Surface Runoff
Total Phosphorus	0.14 mg/L	0.26 mg/L	0.14 mg/L	0.26 mg/L	1	Surface Runoff
рН	Minimum 7.36 S.U.	Maximum 7.36 S.U.	Minimum 7.36 S.U.	Maximum 7.36 S.U.	1	Surface Runoff

Part B
List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under and existing NPDES permit). Complete one t

Pollutant	Maximun (include		Average (include		Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
E. coli	980 N/100 mL	NA	980 N/100 mL	NA	1	Surface Runoff
Total Residual Chlorine	0.01 mg/L	NA	0.01 mg/L	NA	1	Surface Runoff
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	A CONTRACTOR					
CARLE TON				3年,发展	RESIDENCE	
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Pollutan	,		Maximum '			Avera	age Values ude units)	Number	Outfall	009
and CAS Num (if availab	ber	Take	b Sample en During First 30	Flow-weighted Composite	Tak F	b Sample en During First 30	Flow-weighted Composite	of Storm Events Sampled		
		IV	linutes	Composite	N	/linutes	Composite		Sources of Po	ollutants
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art D-	Provide data	for the s	torm event(s) which	th resulted in the m	aximum val	ues for the flo	ow weighted composi	te cample		
10000	EDIN MEDI		3.	4.		des for the file	5.	6.		8.
1. of Storm	2. Duration of	Storm	Total rainfall	Number of between be		Maximum	flow rateduring rain	Total flow from	7. Season	Form
Event	(in minut	The state of the s	during storm eve (in inches)	storm measu		event (gallo	ns/minute or specify	rain event (gallons or	sample was	Precipit (raint
			(III IIICIIes)	of previous r	neasurable		units)	specify units)	taken	snown
		ACC.				1966				
06/13	180 min	utes	1.52 inche	s > 72 h	ours	180 ga	llons/minute	~5,000 gallor	s Spring	Rain
								o,ooo ganor	is opining	Ivaiii
3/12/										
		The same					101			

he flow was determined by estimating the time it took to fill a one-gallon bucket.

# Form Approved. OMB No. 2040-0086. Approval expires 8-31-98.

#### VA0025020

### VII. Discharge Information (Continued from page 3 of Form 2F)

Pollutant	(includ	m Values de units)	(includ	e Values de units)	Number	Outfall 011
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	NA	NA	NA	NA	NA	This outfall has not
Biological Oxygen Demand (BOD5)	NA	NA	NA	NA	NA	discharged during this permi cycle.
Chemical Oxygen Demand (COD)	NA	NA	NA	NA	NA	
Total Suspended Solids (TSS)	NA	NA	NA	NA	NA	
Total Kjeldahl Nitrogen	NA	NA	NA	NA	NA	
Nitrate plus Nitrite Nitrogen	NA	NA	NA	NA	NA	
Total Phosphorus	NA	NA	NA	NA	NA	
рН	Minimum NA	Maximum NA	Minimum NA	Maximum NA	F 37745	
Part B- List each wastewar	n pollutant that is limit ter (if the facility is oper	ed in an effluent guid rating under and existi	deline which the facility	y is subject to or any	pollutant listed	in the facility's NPDES permit for its process
Pollutant		m Values le units)		e Values le units)	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants

Pollutant	Maximum (include		Average (include	Values units)	Number	
and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	of Storm Events Sampled	Sources of Pollutants
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Polluta	nt	Maximum Vali (include unit			Average V (include u		Number		Outfall	011
and CAS Nun (if availab	-	rab Sample aken During Minutes	Flow-weighted Composite	Grab Sa Taken D First : Minut	uring 30 F	Flow-weighted Composite	Storm Events Sampled		Sources of Po	ollutants
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Part D-	Provide data for the	storm event(s) which re	culted in the maximum	m values fo	s the flavour	Inhto decomposit	1000	76.0		
rait D-	Provide data for the	3.	4.	n values to	or the flow we	5.	e sample.	Total S		8.
1. e of Storm	2. Duration of Storm	Total rainfall	Number of hours beginning of sto			m flow rate rain event	Total flow rain eve		7. Season	Form
Event	(in minutes)	during storm event (in inches)	ured and end of	previous	(gallons/mir	nute or specify	(gallons	or	sample was taken	Precipita (rainfa
NA	NA		measurable ra	n event		nits)	specify u	nits)		snowm
INA	INA	, NA	INA		N/	4	NA		NA	NA
rovide a des	cription of the method	of flow measurement of	r estimate							IS SEE
					and and				THE PLANE	

#### VPDES PERMIT NUMBER: VA0025020

#### VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

#### SCREENING INFORMATION

This application is divided into sections. Section A pertains to all applicants. The applicability of Sections B, C and D depends on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

- 1. All applicants must complete Section A (General Information).
- 2. Will this facility generate sewage sludge? X Yes No

Does this facility derive a material from sewage sludge? \_\_Yes \_X\_No

If you answered "Yes" to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Does this facility apply sewage sludge to the land? \_Yes X\_No

Is sewage sludge from this facility applied to the land? X Yes \_No

If you answered "No" to both questions above, skip Section C.

If you answered "Yes" to either, answer the following three questions:

a. Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?

\_Yes X No

- b. Is sewage sludge from this facility to be placed in a bag or other container for sale or give-away for application to the land? \_\_Yes \_X\_No
- c. Is sewage sludge from this facility be sent to another facility for treatment or blending? Yes X No

If you answered "No" to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered "Yes" to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? Yes X No

If "Yes", complete Section D (Surface Disposal).

#### **VPDES PERMIT NUMBER: VA0025020**

#### SECTION A. GENERAL INFORMATION

All applicants must complete this section.

Facil	ity Information.						
a.	Facility name: Western Virginia Water Authority Water Pollution Control Plant						
b.	Contact person: S. Scott Shirley						
	Title: Director of Wastewater Operations						
	Phone: (540) 853-2491						
c.	Mailing address:						
	Street or P.O. Box: 1502 Brownlee Avenue S.E.						
	City or Town: Roanoke State: Virginia Zip: 24014						
d.	Facility location:						
	Street or Route #: Same as above						
	County:						
	City or Town: State: Zip:						
e.	Is this facility a Class I sludge management facility? X Yes No						
f.	Facility design flow rate:55 mgd						
g.	Total population served: ~ 248,100						
h.	Indicate the type of facility:						
	X Publicly owned treatment works (POTW)						
	Privately owned treatment works						
	Federally owned treatment works						
	Blending or treatment operation						
	Surface disposal site						
	Other (describe):						
Appl	icant Information. If the applicant is different from the above, provide the following:						
a.	Applicant name: same as above						
b.	Mailing address:						
	Street or P.O. Box:						
	City or Town: State: Zip:						
c.	Contact person:						
	Title:						
	Phone: ( )						
d.	Is the applicant the owner or operator (or both) of this facility?						
	X owner X operator						
e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)						
	X facility applicant						
Perm	it Information.						
a.	Facility's VPDES permit number (if applicable): VA0025020						
b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received						
	or applied for that regulate this facility's sewage sludge management practices:						
	Permit Number: Type of Permit:						
	VAL025020 NPDES - Sludge						

#### FACILITY NAME: Western Virginia Water Authority Water Pollution Control Plant

#### VPDES PERMIT NUMBER: VA0025020

- 4. **Indian Country**. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this facility occur in Indian Country? \_\_Yes \_X\_No If yes, describe:
- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
  See Site Location Map and Facility Layout Map
  - Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
  - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. See Process Flow Diagram-Solids
- 7. **Contractor Information**. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? X Yes No If yes, provide the following for each contractor (attach additional pages if necessary).

Name: Bionomics Incorporated

Mailing address:

Street or P.O. Box: 516 Roundtree Road

City or Town: Charlotte State: NC Zip: 28217

Phone: (704) 529-0000

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

<u>VDH BUR 79 – Franklin, VDH BUR 114 – Bedford</u>
If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. **Pollutant Concentrations.** Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. **See Attachment A.8** 

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				THE CHARLES
Chromium				
Copper				
Lead				
Mercury			The state of the	
Molybdenum			Maria Maria	
Nickel				
Selenium				
Zinc		Mark Property		· 利利· (4) (2) (2) (2) (3) (4)

ATTACHMENT A.6
SOLIDS FLOW DIAGRAM





WESTERN VIRGINIA WATER AUTHORITY
WATER POLLUTION CONTROL PLANT
PROCESS FLOW DIAGRAM
SOLIDS TRAIN

PROJECT NO. 25154

DATE: 8/2013

# ATTACHMENT A.8 POLLUTANT CONCENTRATIONS



				Pollutant Concentrations (mg/kg)							E KAR			
Sample Date	Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Molybdenum	Nickel	Potassium	Potash	Selinium	Zinc	TKN	% Solids
Jan-09	9.8	1.9		654	97	3.6	24	36	1,800	33,700	10.5	989	41,800	7.85
Feb-09	9.5	3.0		622	109	2.6	23	33	1,900	25,900	0	986	38,000	9.52
Mar-09	9.8	2.0		591	110	1.8	22	30	2,000	19,700	3.3	909	35,100	8.9
Apr-09	10.5	4.6		644	111	1.9	25	28	1,400	34,800	3.1	989	40,800	7.9
May-09	10.6	2.7		597	111	2	22	33	2,200	27,700	3.4	847	29,200	12.55
Jun-09	9.6	1.2		621	107	1.9	24	34	3,200	16,700	1.9	981	38,000	3.68
Jul-09	7.4	2.6		540	101	1.9	20	40	1,500	28,000	4.3	820	33,500	8.57
Jul-09	8.2	1.7		568	9.4	1.4	16	26	2,000	28,700	7.9	1640	40,600	7.78
Aug-09	8.7	2.1		599	107	2.1	18	32	2,400	30,400	11.4	3210	31,900	11.24
Sep-09	7.8	1.1		449	75	2	12	37	<0.04	34,000	6.3	721	32,800	6.59
Oct-09	10.1	2.6		608	104	1.3	16	28	2,300	22,800	0	920	42,300	6.39
Nov-09	10.9	3.0		636	114	2	20	30	2,000	27,200	0	1870	35,900	7.24
Dec-09	9.3	3.0	40.00	610	124	1.5	14	28	2,200	29,100	0	994	40,600	7.89
Jan-10	8.0	2.0	DITTEN S	630	106	2.9	16	24	1,900	28,600	1	960	37,200	8.9
Feb-10	7.0	2.0	100	570	99	1.8	14	28	2,100	10,100	0	950	39,000	9.94
Mar-10	11.0	3.0		600	110	1.8	14	26	1,600	31,000	0	960	42,600	11.03
May-10	7.0	4.0	Total Sec	520	103	2.3	15	32	1,500	27,500	0	830	36,200	8.7
Jun-10	7.0	7.0	E P TOUR	670	201	2.5	14	40	1,500	29,800	3	1090	37,400	7.43
Jul-10	8.0	5.0		666	177	2.2	13	37	1,500	29,800	0	1210	32,500	11.89
Aug-10	6.0	4.0		502	148	1.6	11	35	1,800					
Sep-10	8.0	5.0		627	158	2	14	33		19,300	0	797	17,400	23.65
Oct-10	4.0	1.0		235	49	0.4	9		2,000	22,300	0	1060	33,000	12.89
Nov-10	9.0	3.0		611	118	2		13	8,000	11,400	0	349	15,800	16.6
Dec-10	11.0	3.0	100				21	28	1,800	29,600	0	940	38,100	9.83
Jan-11	9.0	3.0		652	125	1.9	23	35	2,200	25,400	3	988	39,300	10.04
Mar-11	8.0			634	116	2.2	18	28	2,100	8,000	<1.0	955	38,200	7.69
		2.0		592	103	1.4	15	25	2,500	26,000	2	857	45,600	6.58
Apr-11	8.0	2.0		659	101	1.7	13	27	2,800	13,000	1	1,010	49,800.00	7.65
May-11	10.0	4.0	10.00	672	151	5.7	13	42	1,360	26,500	1.0	874	30900	10.55
Jun-11	2.8	0.9		588.0	112.0	0.5	5.3	6.8	1,650	37,700	0.4	811.0	24517	9.2
Jul-11	8.0	2.0		625	100	1	16	25	1,700	30,100	1	950	42700	7.5
Aug-11	8.5	2.7		693	103	1.3	16.5	25.15	1,630	25,100	1	783.5	37450	7.93
Sep-11	7.0	2.8		736	196	2.53	14.35	31.9	1,570	29,600	<1.0	938	25600	8.29
Oct-11	6.1	2.7		846	172	17	12.05	49.7	1,375	23,950	<1.0	843	16800	13.43
Nov-11	7.7	2.7	112	708	107	1.14	12.4	21	1,330	32,200	1	1000	24600	14.73
Dec-11	9.3	3.4		731	108	1.01	13.1	23.05	1,710	29,500	4	980.5	23400	13.96
Jan-12	10.0	2.0		652	102	1.20	15	24	1,780	25,500	1	962	31,300	11.02
Feb-12	8.0	3.0		433	156	1.40	8	31	1,300	21,400	ND	594	20,800	16.14
Mar-12	13.0	2.0	112	483	70	0.40	11	27	2,040	21,300	1	779	41,400	6.08
Apr-12	11.0	2.0		544	72	1.00	13	27	2,060	15,300	2	888	39,800	8.56
May-12	14.0	2.0	THE STREET	579	84	1.70	15	28	2,100	24,200	1	913	40,700	7.96
Jun-12	8.0	4.0		625	129	2.70	13	29	2,100	24,200	1	1,050	38,400	8.30
Jul-12	10.0	5.0		701	170	2.80	19	35	1,860	29,500	<1.0	1,090	34,200	8.24
Aug-12	9.0	4.0		592	91	1.60	15	29	2,850	28,600	1	908	44,200	6.86
Sep-12	10.0	3.0		684	114	2.10	19	31	2,020	38,800	1	1,060	40,800	9.37
Oct-12	9.0	3.0		624	101	2.00	19	26	2,250	34,600	<5.0	1,010	39,800	8.95
Nov-12	10.0	4.0	157	715	133	2.30	21	32	1,750	36,900	<5.0	1,020	40,400	8.44
Dec-12	11.0	3.0	141	587	120	1.30	20	31	1,830	30,900	868	868	35,500	9.57
Jan-13	12.0	3.0	RESERVED TO THE RESERVED TO TH	597	103	1.3	26	31	1,350	26,200	<5.0	889	30,400	9.91
Feb-13	11.0	3.0	110	568	98	1.5	21	28	1,640	30,800	<5.0	827	30,900	10.02
Mar-13	9.0	3.0	107	565	96	1.5	20	30	1,890	30,700	5	809	30,700	9.36
Apr-13	5.0	2.0	123	455	58	0.8	9	24	2,360	18,700	<5.0	723	56,900	4.43
May-13	6.0	2.0	133	571	69	<0.4	12	30	1,860	28,300	<5.0 <5.0	871	49,300	6.12
Jul-13	8.0	2.0	NA NA	569	78	1.1	13	25	1,600	29,800	<5.0 <5.0	855		
701-13	0.0	2.0	INA	303	70	1.1	13	20	1,000	29,800	<5.0	855	41,400	6.54
Average	8.80	2.84	124	605	111	2.11	16	30	2,022	26,429	23.21	984	35,764	9

Notes: 1. Detection levels vary based on solids concentrations.

3. Detection limit indicated as "less than" (<) values for those parameters not detected during analysis.

<sup>2.</sup> Blank indicates not analyzed

#### FACILITY NAME: Western Virginia Water Authority Water Pollution Control Plant

#### VPDES PERMIT NUMBER: VA0025020

- 9. Certification. Read and submit the following certification statement with this application. Refer to the instructions to determine who is an officer for purposes of this certification. Indicate which parts of the application you have completed and are submitting:
  - X Section A (General Information)
  - X Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
  - X Section C (Land Application of Bulk Sewage Sludge)
  - \_\_\_\_Section D (Surface Disposal)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name and official title: Michael T. McEvoy, Executive Director, Wastewater Services

Signature Michael 1. 79-27 Date Signed

Telephone number (540) 853-1449

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

#### **VPDES PERMIT NUMBER: VA0025020**

# SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

l.		dry metric tons per 365-day period generated at your facility: 10,406 dry metric tons							
2.		unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use of sal, provide the following information for each facility from which sewage sludge is received. If you receive							
		ge sludge from more than one facility, attach additional pages as necessary.							
	a.	Facility name: See Attachment B.2							
	b.	Contact Person:							
		Title:							
		Phone ( )							
	c.	Mailing address:							
		Street or P.O. Box:							
		City or Town: State: Zip:							
	d.	Facility location:							
		(not P.O. Box)							
	e.	Total dry metric tons per 365-day period received from this facility: dry metric tons							
	f.	Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site							
		facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics							
	a. b.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AX_Class BNeither or unknown  Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce							
		pathogens in sewage sludge: Anaerobic Digestion							
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility?							
		X Option 1 (Minimum 38 percent reduction in volatile solids)							
		Option 2 (Anaerobic process, with bench-scale demonstration)							
		Option 3 (Aerobic process, with bench-scale demonstration)							
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature)							
		Option 6 (Raise pH to 12 and retain at 11.5)							
		Option 7 (75 percent solids with no unstabilized solids)							
		Option 8 (90 percent solids with unstabilized solids)							
		None or unknown							
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce							
		vector attraction properties of sewage sludge: Anaerobic Digestion							
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including							
		blending, not identified in a - d above: N/A							

ATTACHMENT B.2
SLUDGE PROVIDERS



#### WESTERN VIRGINIA WATER AUTHORITY WATER POLLUTION CONTROL PLANT VPDES SEWAGE SLUDGE PERMIT APPLICATION ATTACHMENT B.2

Facility	Contact Person/Title	Phone	Mailing Address	Facility Address	Total dry metric tons*	
Booker T. Washington Water Pollution Control Plant	M.H. Doss, Superintendent Waste Water Operations	540-853-5962	1502 Brownlee Ave., SE	415 Old Taylor Drive Hardy, VA 24101		
Falling Creek Water Pollution Control Plant	Jeff Booth, Water Operations Superintendent	540-380-2687	3031 Laurel Glen Drive, Vinton, VA 24179	Same	7.4	
Woodhaven Nursing Home - STP	David F. Graves, President	540-947-2207	US Route 460 West, P.O. Box 168 Lynchburg – Salem Montvale, VA 24122- 0168 VA 24122-0168		3.65	
Town of Buchanan	Larry Hall, Mayor	540-254-1212	P.O. Box: 205 Buchanan, VA 24066	541 Parkway Drive Buchanan, VA 24066	15	
Roanoke Cement	Lance Clark, Environmental Engineer	540-966-6854	6071 Catawba Road Troutville, VA 24175	Same	2.0	
Catawba Hospital VA Department of Mental Health	Frank Garman, Building and Grounds Superintendent	540-375-4332	P.O. Box 200 Catawba, VA 24070			
Town of Fincastle Sewage Treatment Plant**	Mike Doss, Superintendent of Wastewater Operations	540-473-3065	1478 Botetourt Rd. Fincastle, VA 24090	Same	<1.0	
Blacksburg Country Club Estates	Diana Reynolds Superintendent	540-989-3268	3807 Brandon Avenue, SW, Suite 245 Roanoke, VA 24018	Blacksburg, VA 24060	5.68	
ABB, Inc.	Daniel E. Hoosier	276-688-3325	P.O. Box 38 171 Industrial Drive, Bland, VA 24315 Bland, VA 24315		2.1	
Foster Falls Recreation Area (New River Trail State Park in Wythe County)	Greg Holts	276-699-6778	176 Orphanage Drive Max Meadows, VA 24360	Same	1.0†	
Ramsey's Mobile Home Park Sewage Treatment Plant	Dan Ramsey, Owner	540- 580-8685	P.O. Box 181 Blue Ridge, VA 24064	Dearing Lane Vinton, VA 24179	<1.0	

<sup>\*</sup> Amount received from this facility per 365-day period.

\*\*Sludge is normally pressed and sent to Botetourt County Landfill. The WVWA POTW is used only in an emergency.

<sup>†</sup>WWTP at park not yet in operation.

# VPDES PERMIT NUMBER: VA0025020

4.		aration of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements One of Vector Attraction Reduction Options 1-8 (EQ Sludge). N/A
		age sludge from your facility does not meet all of these criteria, skip Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:  dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? YesNo
5.	Sale	or Give-Away in a Bag or Other Container for Application to the Land. N/A
	(Comp	lete this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this
	questio	on if sewage sludge is covered in Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.
6.	Shipr	nent Off Site for Treatment or Blending. N/A
0.	(Comp	olete this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question does by to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is covered in ons 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)
	a.	Receiving facility name:
	b.	Facility contact:
	U.	Title:
		Phone: ( )
	c.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry
		metric tons
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal practices:
		Permit Number: Type of Permit:
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility?YesNo
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility?  Class A Class B Neither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to
		reduce pathogens in sewage sludge:
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the sewage sludge?YesNo
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)

VPD	ES PER	MIT NUMBER:VA0025020 None unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce vector attraction properties of sewage sludge:
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above? YesNo
		If "Yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:
	i.	If you answered "Yes" to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?YesNo
	k.	If "Yes", provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.
7.		Application of Bulk Sewage Sludge.
		plete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or 6;
		ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites: 5,673 dry
	b.	metric tons  Do you identify all land application sites in Section C of this application?YesNo N/A  If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo N/A  If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV). N/A
8.	Surf	ace Disposal. N/A
0.		plete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo If "No", answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ( )
		Contact is:Site OwnerSite operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:

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	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface disposal site:
		Permit Number: Type of Permit:
9.	Incine	eration. N/A
	(Comp.	lete Question 9 if sewage sludge from your facility is fired in a sewage sludge incinerator.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired?
		YesNo If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	c.	Incinerator name or number:
	d.	Contact person:
		Title:
		Phone: ( )
		Contact is:Incinerator OwnerIncinerator Operator
	e.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.	Dispo	sal in a Municipal Solid Waste Landfill. N/A
	(Comp.	lete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information for unicipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name:
	b.	Contact person:
		Title:
		Phone:
		Contact is:Landfill OwnerLandfill Operator
	c.	Mailing address.
		Street or P.O. Box:
		City or Town: State: Zip:
	d.	Landfill location.
		Street or Route #:
		County:
		City or Town: State: Zip:
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
		dry metric tons

### VPDES PERMIT NUMBER: VA0025020

f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the operation of this municipal solid waste landfill:				
	Permit Number: Type of Permit:				
g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9 VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill? YesNo				
h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid				
	Waste Management Regulation, 9 VAC 20-80-10 et seq.?YesNo				
i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill be watertight and covered?YesNo  Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week and time of the day sewage sludge will be transported.				

## VPDES PERMIT NUMBER: VA0025020

#### SECTION C. LAND APPLICATION OF BULK SEWAGE SLUDGE

Complete this section for sewage sludge that is land applied unless any of the following conditions apply:

- The sewage sludge meets the Table 1 ceiling concentrations, the Table 3 pollutant concentrations, Class A pathogen requirements and one of the vector attraction reduction options 1-8 (fill out B.4 instead) (EQ Sludge); or
- The sewage sludge is sold or given away in a bag or other container for application to the land (fill out B.5 instead); or
- You provide the sewage sludge to another facility for treatment or blending (fill out B.6 instead).

  Section C for every site on which the sewage sludge that you reported in B.7 is land applied.

1.	Ident	tification of Land Application Site.	
	a.	Site name or number:	See Attachment C.1-2 and BUR Site Books
	b.	Site location (Complete i and ii)	from Bionomics Inc. submitted previously to
		i. Street or Route#:	DEQ.
		County:	
		City or Town: State: Z	ip:
		ii. Latitude: Longitude:	
		Method of latitude/longitude determination	
		USGS map Filed survey	_ Other
	c.	Topographic map. Provide a topographic map (or other appropriate that shows the site location. See BUR Site Books from Bionomics	
2.	Own	er Information.	
	a.	Are you the owner of this land application site?Yes _X_No	See Attachment C.1-2 and BUR Site Books
	b.	If no, provide the following information about the owner:	from Bionomics Inc. submitted previously to
		Name:	DEQ.
		City or Town: State: Zip	
		Phone: ( )	
3.	Appl	ier Information:	
	a.	Are you the person who applies, or who is responsible for application	on of, sewage sludge to this land
		application site?Yes _X _No	
	b.	If no, provide the following information for the person who applies	the sewage sludge:
		Name: Bionomics Incorporated	
		Street or P.O. Box: 516 Roundtree Road	
		City or Town: Charlotte State: NC Zip:	28217-2133
		Phone: (704) 529-0000	
	c.	List, on this form or an attachment, the numbers of all federal, state	or local permits that regulate the person
		who applies sewage sludge to this land application site:	
		Permit Number: Type of Permit:	
		VDH BUR 79 VDH Biosolids Use Pe	<u>ermit</u>
		VDH BUR 114 VDH Biosolids Use Pe	<u>ermit</u>
4.		Type. Identify the type of land application site from among the following	ng:
			Forest
	Pu	blic contact siteOther. Describe	
5.		or Attraction Reduction.	
		ny vector attraction reduction requirements met when sewage sludge is	applied to the land application site?
	Y	Yes X_No If yes, answer a and b.	
	a.	Indicate which vector attraction reduction option is met:	
		Option 9 (Injection below land surface)	
/		Option 10 (Incorporation into soil within 6 hours)	
	b.	Describe, on this form or on another sheet of paper, any treatment p	rocesses used at the land application site
		to reduce the vector attraction properties of sewage sludge:	

# ATTACHMENT C.1-2 LAND APPLICATION SITES



# FRANKLIN COUNTY LAND APPLICATION SUMMARY Attachment C.1

Farmer	Field	Total Acres	Latitude	Longitude
John Synder	RO2-1	5.9	37°4'2.06"N	79°50'20.49"W
	RO2-2	37.7	37°3'58.73"N	79°49'55.87"W
	RO2-5	69.8	37°7'37.23"N	79°51'43.54"W
	RO2-7	20.7	37°7'43.18"N	79°45'11.45"W
	RO2-10	19.7	37°7'21.77"N	79°44'48.27"W
	RO2-13	76.2	37°3'58.12"N	79°50'45.72"W
	RO2-16	16.9	37°4'7.81"N	79°50'43.77"W
	RO2-18	39.4	37°4'16.32"N	79°50'38.31"W
George English	RO9-1	43.0	36°55'24.56"N	79°48'41.40"W
	RO9-2	19.4	36°55'29.36"N	79°49'18.56"W
	RO9-2A	8.3	36°55'32.93"N	79°49'21.22"W
	RO9-3	13.2	36°55'31.39"N	79°49'10.56"W
	RO9-3A	17.5	36°55'33.49"N	79°49'2.72"W
	RO9-4	23.7	36°55'43.93"N	79°48'57.30"W
0.26	RO9-5	22.3	36°55'49.49"N	79°49'8.33"W
JT Brooks	RO11-1	60.8	37°0'35.88"N	79°44'33.56"W
	RO11-2	46.7	37°3'28.64"N	79°48'15.94"W
	RO11-3	11.9	37°0'44.57"N	79°44'20.11"W
	RO11-4	8.2	37°0'56.5"N	79°44'34.19"W
	RO11-5	5.2	37°0'56.11"N	79°44'41.72"W
	RO11-6	13.9	37°0'59.79"N	79°44'26.81"W
	RO11-7	10.1	37°58'52.6"N	79°45'4.99"W
	RO11-8	19.5	37°58'53.32"N	79°44'48.96"W
Noel Parcell	RO12-1	11.3	36°56'50.99"N	79°48'16.86"W
	RO12-2	14.1	36°57'0.25"N	79°48'26.2"W
	RO12-3	18.3	36°57'15.95"N	79°49'2.4"W
	RO12-3A	4.1	36°57'18.01"N	79°49'16.52"W
	RO12-10	18.6	36°57'29.31"N	79°48'57.99"W
	RO12-12	41.7	36°57'1.86"N	79°48'55.2"W
	RO12-13	23.8	36°56'20.31"N	79°48'47.97"W
	RO12-14	9.3	36°57'22.39"N	79°48'49.14"W
	RO12-14A	8.6	36°57'25.83"N	79°48'49.19"W
William Helms	RO13	NA	NA	NA
Brenda Tyree	RO29-4	15.8	36°56'56.5"N	79°46'38.08"W
	RO29-5	81.7	36°56'45.76"N	79°46'35.78"W
	RO29-6	32.1	36°56'28.58"N	79°46'31.42"W
Barry Cundiff	RO35-1	33.1	36°57'16.82"N	79°45'8.89"W
Allen Layman	RO36	NA	NA	NA

Farmer	Field	Total Acres	Latitude	Longitude
Robert Fralin	RO39-1	18.4	36°56'10.65"N	79°43'34.74"W
	RO39-3	6.6	36°56'14.89"N	79°43'32.94"W
	RO39-4	5.7	36°56'16.78"N	79°43'41.71"W
	RO39-5	36.5	36°56'21.18"N	79°43'30.24"W
	RO39-6	12.1	36°56'26.79"N	79°43'41.53"W
	RO39-7	4.5	36°56'39.09"N	79°43'43.43"W
	RO39-8	3.8	36°56'50.16"N	79°43'45.04"W
Vann Flora	RO40-3	29.5	37°2'23.75"N	80°4'59.39"W
	RO40-4	10.3	37°2'39.88"N	79°59'48.82"W
	RO40-5	19.0	37°2'49.61"N	79°59'40.37"W
John Bowman	RO41-1	8.9	37°3'58.35"N	80°4'31.5"W
	RO41-2	14.7	37°3'58.1"N	80°4'21.12"W
	RO41-3	10.4	37°3'51.19"N	80°4'15.7"W
	RO41-5	9.3	37°3'45.44"N	80°3'59.62"W
	RO41-6	8.3	37°3'41.61"N	80°3'47.11"W
	RO41-7	13.0	37°3'38.98"N	80°3'56.26"W
	RO41-8	14.8	37°3'39.79"N	80°4'5.87"W
Patrick Clingenpeel	RO43-1	14.1	37°3'14.02"N	80°1'14.24"W
	RO43-2	8.4	37°3'14.42"N	80°1'20.79"W
	RO43-2A	8.7	37°3'19.75"N	80°1'18.86"W
	RO43-3	12.7	37°3'19.8"N	80°1'25.83"W
	RO43-4	5.8	37°2'59.45"N	80°1'9.36"W
	RO43-5	17.3	37°2'56.33"N	80°0'57.83"W
	RO43-5A	28.3	37°3'4.7"N	80°0'53.07"W
Ronald Walker	RO46-6	15.6	36°51'12.87"	79°43'41.29"
	RO46-8A	3.2	36°51'11.03"	79°43'31.31"
	RO46-8B	20.9	36°51'5.76"	79°43'22.83"
	RO46-8C	8.9	36°50'52.51"	79°43'22.15"
	RO46-8D	23.5	36°50'57.23"	79°43'28.87"
	RO46-8E	10.7	36°50'55.66"	79°43'39.87"
	RO46-8F	3.9	36°50'59.62"	79°43'39.46"
	RO46-8G	2.3	36°50'57.50"	79°43'46.18"
	RO46-9	22.7	36°50'39.31"	79°43'7.15"
	RO46-9A	6.8	36°50'46.21"	79°43'8.44"
	RO46-10	6.2	36°50'42.19"	79°42'59.14"
	RO46-11	8.5	36°50'51.96"	79°42'48.62"
	RO46-12	50.1	36°51'4.26"	79°42'38.97"
	RO46-12A	21.7	36°51'2.52"	79°42'30.08"
	RO46-16	36.9	36°50'40.61"	79°42'25.0"
Buddy Campbell	RO47-1	17.5	36°53'19.95"N	79°39'5.62"W
	RO47-1A	59.4	36°53'26.97"N	79°39'16.33"W
	RO47-1B	15.4	36°53'22.87"N	79°39'38.87"W

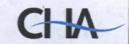


Farmer	Field	Total Acres	Latitude	Longitude
	RO47-2	54.8	36°53'16.6N	79°38'42.93"W
	RO47-3	19.6	36°52'54.33"N	79°38'38.33"W
	RO47-4	42.0	36°52'21.59"N	79°38'30.59"W
	RO47-4A	6.9	36°52'20.15"N	79°38'42.78"W
	RO47-5	67.5	36°52'1.64"N	79°38'34.33"W
	RO47-6	31.5	36°53'35.37"N	79°39'2.17"W
	RO47-7	22.0	36°53'5.73"N	79°39'45.58"W
	RO47-8	8.3	36°53'4.39"N	79°39'56"W
	RO47-9	13.4	36°53'10.72"N	79°39'53.65"W
Robert Mills - MC Cattle	RO49-1	18.6	36°52'26"N	79°38'41"W
	RO49-2	26.5	36°52'35.66"N	79°38'54.57"W
	RO49-3	7.8	36°52'37.71"N	79°38'47.06"W
David Mitchell	RO60-1	18.6	36°50'21.85"N	79°46'40.1"W
	RO60-2	38.9	36°50'33.61"N	79°46'35.97"W
	RO60-3	11.0	36°50'27.8"N	79°46'50.45"W
	RO60-4	41.5	36°50'27.89"N	79°47'1.12"W
	RO60-4A	5.8	36°50'38.68"N	79°46'45.29"W
	RO60-5	8.7	36°50'35.24"N	79°47'7.6"W
	RO60-6	10.9	36°50'25.53"N	79°47'11.42"W
	RO60-7	11.5	36°50'25.60"N	79°47'17.86"W
	RO60-8	28.5	36°50'16.74"N	79°47'24.32"W
	RO60-9	14.4	36°50'10.53"N	79°47'19.89"W
	RO60-10	16.3	36°50'22.51"N	79°47'31.95"W
	RO60-12	26.8	36°51'2.95"N	79°45'6.95"W
	RO60-13	49.4	36°51'4.71"N	79°44'41.71"W
	RO60-14	20.0	36°51'2.93"N	79°44'32.11"W
Lawrence Motley	RO61-2	18.7	36°53'41.99"N	79°44'32.55"W
	RO61-5	4.8	36°53'56.69"N	79°44'27.62"W
	RO61-6	12.3	36°53'46.57"N	79°44'25.17"W
	RO61-7	9.8	36°53'31.24"N	79°44'19.75"W
	RO61-8	12.0	36°53'35.26"N	79°44'12.95"W
Issac Cockfield	RO62-1	6.4	36°53'23.68"W	79°44'29.28"W
	RO62-2	7.0	36°53'23.83"N	79°44'21.57"W
	RO62-3	6.0	36°53'18.01"N	79°44'18.08"W
	RO62-4	29.5	36°53'30.6"N	79°44'32.11"W
Preston Belcher	RO63-1	29.4	36°53'37.18"N	79°41'14.84"W
	RO63-2	7.3	36°53'42.34"N	79°41'9.91"W
	RO63-3	18.5	36°53'53.31"N	79°41'9.32"W
	RO63-4	3.6	36°53'57.56"N	79°41'20.42"W
	RO63-5	17.5	36°53'42.29"N	79°40'54.05"W
	RO63-6	19.4	36°53'51.64"N	79°40'45.88"W
	RO63-7	5.8	36°53'58.7"N	79°40'48.7"W



Farmer	Field	Total Acres	Latitude	Longitude
	RO63-8	8.6	36°53'53.45"N	79°41'2.54"W
Buren Mack	RO64-1	31.8	36°54'45.22"	79°49'59.06"
	RO64-2	16.1	36°56'11.32N	79°43'19.73"W
	RO64-3	34.3	36°56'4.58"N	79°43'20.3"W
	RO64-4	43.7	37°1'7.19"N	79°41'55.2"W
George Barnhart	RO65-1	41.4	37°4'37.27"N	79°54'2.56"W
Linn Baker	RO66-1	26.8	37°4'34.9"N	79°47'4.96"W
	RO66-2	10.6	37°4'26.15"N	79°47'1.5"W
Marshall Flora	RO67-1	49.0	37°5'36.44"N	79°54'12.48"W
Bryan Matthews	RO68-3	70.4	37°1"32.35"N	79°58'16.83"W
	RO68-4	52.4	37°1'12.03"N	79°58'6.66"W
David Robertson	RO69-1	13.7	36°57'56.13"N	79°45'28.33"W
	RO69-2	14.0	36°58'5.05"N	79°45'34.76"W
	RO69-3	13.7	36°58'3.95"N	79°45'47.72"W
	RO69-4	12.5	36°0'18.43"N	79°44'40.81"W
	RO69-5	21.9	36°0'25.15"N	79°44'43.04"W
	RO69-6	34.2	36°0'15.18"N	79°42'16.63"W
	RO69-7	7.1	36°0'14.95"N	79°42'5.93"W
	RO69-8	5.9	36°0'23.2"N	79°42'14.3"W
Thomas Robertson	RO70-1	8.3	36°59'1.48"N	79°46'24.16"W
	RO70-2	17.5	36°58'54.09"N	79°46'21.91"W
	RO70-3	4.2	36°59'41.22"N	79°44'20.48"W
	RO70-4	8.2	36°59'51.31"N	79°44'12.89"W
	RO70-5	12.8	36°59'54.61"N	79°44'19.64"W
	RO70-6	13.2	37°0'11.92"N	79°44'7.58"W
	RO70-7	3.3	37°0'25.19"N	79°44'8.58"W
	RO70-8	12.7	37°0'17.92"N	79°44'27.78"W
lean Flora Capps	RO71-1	21.5	37°2'34.84"N	80°4'46.86"W
Kenneth Hatchett	RO 72-1	40.1	36 50' 39.53"	79 42' 37.13"
	RO 72-2	43.7	36 51' 43.64"N	79 42' 08.45"W
	RO 72-3	6.4	36 52' 01.06"N	79 42' 05.92"W
	RO 72-4	8.4	36 52' 03.93"N	79 42' 15.92"W

**TOTALS** 3,115.4



# BEDFORD COUNTY LAND APPLICATION SUMMARY Attachment C.2

Farmer	Field	Total Acres	Latitude	Longitude
Woolford	RO 50-2	20.4	37 10' 26.65"N	79 26' 38.08"W
	RO 50-5	92.5	37 10' 14.39"N	79 26' 16.68"W
	RO 50-6	21.3	37 10' 10.04"N	79 26' 25.12"W
	RO 50-9	28.4	37 10' 17.56"N	79 26' 8.21"W
Watson	RO 25-3	10.2	37 12' 9.03"N	79 36' 34.67"W
Wagner	RO 45-1	19.7	37 9' 34.32"N	79 31' 3.09"W
	45-2	7.0	37 9' 49.28"N	79 31' 0.71"W
	45-7	6.3	37 5' 40.90"N	79 31' 15.69"W
	45-8	13.6	37 5' 45.20"N	79 31' 5.42"W
	45-9	7.2	37 5' 29.35"N	79 31' 4.21"W
	45-10	3.2	37 5' 35.99"N	79 31' 0.31"W
	45-11	5.6	37 5' 28.27"N	79 30' 52.49"W
	45-12	69.6	37 5' 39.63"N	79 30' 48.52"W
	45-13A	9.1	37 5' 55.40"N	79 31' 1.63"W
	45-13B	19.1	37 5' 59.32"N	79 30' 46.23"W
	45-15A	6.0	37 6' 3.16"N	79 31' 1.01"W
	45-15B	6.1	37 6' 7.45"N	79 30' 58.24"W
	45-16	11.2	37 9' 19.79"N	79 31' 2.14"W
	45-17	45.3	37 9' 10.54"N	79 31' 6.42"
	45-18	29.4	37 9' 12.81"N	79 30' 55.19W
	45-19	21.4	37 9' 39.89"N	79 35' 49.21"W
	45-20	6.2	37 9' 51.74"N	79 35' 22.29"W
	45-21	32.6	37 9' 58.28"N	79 35' 32.74"W
	45-22	29.5	37 9' 45.45"N	79 35' 39.51"W
	45-48	35.5	37 9' 56.33"N	79 35' 42.59"W
	45-23	27.8	37 6' 6.65"N	79 29' 53.56"W
	45-24	9.1	37 5' 57.46"N	79 29' 45.98"W
	45-25	27.2	37 5' 59.99"n	79 29' 39.35"W
	45-28	16.5	37 8' 19.33"N	79 31' 31.84"W
	45-29	5.5	37 8' 18.92"N	79 31' 20.95"W
	45-30	11.2	37 8'12.57"N	79 31' 15.70"W
	45-31	8.6	37 8' 7.57"N	79 31' 32.85"W
	45-32	4.6	37.6' 38.41"N	79 30' 54.79"W
	45-33	16.4	37 6' 41.17"N	79 30' 58.66"W
	45-34A	4.2	37 10' 9.13"N	79 36' 17.84"W
	45-34B	26.7	37 10' 9.48"N	79 36' 11.62"W
	45-35	53.5	37 10' 2.62"N	79 36' 8.05"W
	45-37	0.0	37 9' 58.88"N	79 37' 0.92"W
	н н н	18.2	37 9' 58.88"N	79 37' 0.92"W
	45-41	26.4	37 9' 53.06"N	79 37' 13.56"W
	45-42	11.9	37 10' 5.49"N	79 37' 22.43"W

Farmer	Field	Total Acres	Latitude	Longitude
	45-43	21.5	17 10' 9.25"N	79 37' 30.20"W
	45-44	2.9	37 10' 9.42"N	79 37' 10.13"W
	45-45	15.4	37 10' 21.95"N	79 37' 19.20"W
	45-47	16.0	37 10' 29.56"N	79 37' 7.77"W
	45-49	3.0	37 12' 26.39"N	79 36' 31.87"W
	45-52	17.1	37 12' 27.41"N	79 36' 46.29"W
	45-53	8.5	37 12' 5.08"N	79 37' 3.66"W
	45-54	746.0	37 12' 15.04"N	79 37' 3.13"W
Preston	RO 44-1	20.1	37 9' 17.77"W	79 29' 47.79"W
	RO 44-2	9.1	37 9' 7.39"N	79 29' 57.19"W
	RO 44-3	2.3	37 9' 11.82"N	79 30' 0.52"W
	RO 44-4	4.1	37 9' 15.97"N	79 29' 57.30"W
	RO 44-6	29.3	37 9' 35.19"N	79 30' 44.93"W
	RO 44-7	34.0	37 9' 48.80"N	79 30" 29.29"W
	RO 44-10	79.0	37.9' 27.80"N	79 30' 38.82"W
	RO 44-11	58.8	37 9' 16.31"N	79 30' 17.06"W
	RO 44-12	12.0	37 9' 40.09"N	79 29' 34.51"W
	RO 44-13	29.5	37 9' 46.44"N	79 29' 24.08"W
	RO 44-14	22.0	37 9' 53.89"N	79 29' 39.44"W
Robertson	RO 27-6	24.6	37 12' 52.55"N	79 36' 37.99"W
Sheets	RO 54-1	6.6	37 12' 4.09"N	79 36' 30.13"W
	RO 54-2	4.8	37 12' 6.08"N	79 36' 23.57"W
	RO 54-6	7.4	37 12' 1.31"N	79 36' 16.31"W
	RO 54-7	8.2	37 12'15.02"N	79 36' 15.75"W
	RO 54-8	5.3	37 12' 8.46"N	79 36' 5.37"W
	RO 54-9	1.8	37 12' 6.27"N	79 36' 5.27"W
	RO 54-10	1.8	37 12' 6.27"N	79 36' 5.27"W
	RO 54-11	7.7	37 12' 4.47"N	79 36' 8.04"W
	RO 54-13	7.9	37 12' 14.57"N	79 36' 23.92W
W Adams	RO 60-1	16.7	37 12' 27.34"N	79 31' 51.07"W
	RO 60-2	42.0	3712' 13.22"N	79 31' 44.80"W
	RO 60-5	17.8	37 12' 9.39"N	79 31' 52.57"W
L Baker	RO 59-1	13.0	37 8' 59.65"N	79 36' 59.94"W
	RO 59-2	11.5	37 8' 45.40"N	79 36' 49.61"W
	RO 59-3	32.2	37 8' 51.61"N	79 36' 43.84"W
	RO 59-4	21.2	37 8' 41.61"N	79 36' 38.04"W
	RO 59-5	9.3	37 8' 45.19"N	79 36' 33.05"W
K Howell	RO 57-2	3.1	37 6' 20.58"N	79 31' 9.52"W
	RO 57-6	8.3	37 6' 34.67"N	79 31' 5.05"W
	RO 57-7	12.7	37 6' 32.66"N	79 30' 58.68"W
	RO 57-7A	1.5		
	RO 57-8	4.2	37 6' 30.81"N	79 30' 54.84"W
	RO 57-9	6.3	37 6' 28.34"N	79 30' 52.73"W
	RO 57-10	1.9	37 6' 22.43"N	79 30' 55.89"W



Farmer	Field	Total Acres	Latitude	Longitude
	RO 57-14	4.6	37 6' 39.35"N	79 30' 40.92"W
	RO 57-15	4.0	37 6' 36.83"N	79 30' 33.71"W
	RO 57-17	19.2	37 6' 36.28"N	79 30' 26.60"W
	RO 57-18	16.0	37 6' 30.19"N	79 30' 32.02"W
Nance	RO 24-3	12.3	37 12' 58.45"N	79 35' 47.60"W
	RO 24-7	31.0	37 10' 13.52"N	79 35' 47.64"W
	RO 24-8	22.7	37 10' 5.05"N	79 35' 40.71"W
	RO 24-9	18.6	37 10' 5.12"N	79 35' 28.75"W
	RO 24-18	18.8	37 14' 15.76"N	79 29' 23.00"W
	RO 24-19	15.6	37 14' 9.57"N	79 29' 22.74"W
	RO 24-20	9.7	37 14' 30.16"N	79 29' 10.53"W
	RO 24-21	6.8	37 14' 26.50"N	79 29' 4.62"W
	RO 24-22	12.9	37 14' 25.26"N	79 29' 11.19"W
	RO 24-23	13.8	37 14' 21.01"N	79 29' 5.48"W
	RO 24-24	5.2	37 14' 15.49"N	79 28' 53.71"W
	RO 24-25	26.3	37 14' 13.24"N	79 28' 57.58"W
	RO 24-26	13.0	37 14' 9.36"N	79 28' 54.39"W
	RO 24-27	6.8	37 14' 6.20"N	79 28'54.57"W
D. Bays	RO 56-1	12.8	37 8' 39.42"N	79 29' 55.28"W
	RO 56-2	26.0	37 8' 32.63"N	79 29' 48.12"W
	RO 56-4	11.3	37 8' 36.36"N	79 29' 40.70"W
	RO 56-5	14.4	37 8' 22.95"N	79 29' 38.55"W
	RO 56-6	13.3	37 8' 30.43"N	79 29' 34.52"W
	RO 56-9	4.9	37 8' 26.59"N	79 29' 30.12"W
	RO 56-10	25.1	37 6' 58.78"N	79 33' 16.15"W
	RO 56-11	12.6	37 7' 9.42"N	79 33' 24.70"W
	RO 56-12	29.2	37 7' 9.39"N	79 33' 33.94"W
	RO 56-13	32.7	37 6' 39.63"N	79 33' 53.96"W
	RO 56-14	60.6	37 8' 46.34"N	79 32' 1.75"W
	RO 56-15	54.8	37 8' 11.88N	79 24' 11.15"W
L. Sanders	RO 55-1	20.1	37 8' 40.37"N	79 32' 58.17"W
	RO 55-2	22.2	37 8' 33.24"N	79 32' 33.17"W
	RO 55-3	22.6	37 8' 27.55"N	79 32' 34.41"W
	RO 55-5	35.0	37 8' 45.77"N	79 32' 45.03"W
	RO 55-11	14.9	37 8' 35.89"N	79 32' 11.50"W
L. Howell	RO 58-2	17.0	37 11' 12.58"N	79 26' 10.89"W
	RO 58-4	28.1	37 10' 57.64"N	79 25' 38.43"W
	RO 58-5	51.8	37 11' 13.39"N	79 25' 31.94"W
	RO 58-6	20.9	37 11' 2.54"N	79 25' 22.04"W
	RO 58.7	3.3	37 10' 55.93"N	79 25" 28.16"W
	TOTALS	2 022 5		20110 11

TOTALS 3,023.5



#### VPDES PERMIT NUMBER: VA0025020

6.	Cum	ulative Loadings and Re	maining Allotments.	
			ge sludge applied to this site sinc	e July 20, 1993 is subject to the cumulative pollutant loading rates
	a.	s) - see instructions.)  Have you contacted Di	FO or the permitting author	ity in the state where the sewage sludge subject to the
	a.		to ascertain whether bulk s	ewage sludge subject to the CPLRs has been applied to this
			abject to the CPLRs may no	t he applied to this cite
		If yes, provide the follo		to be applied to this site.
			Virginia Department of H	and the
				eann eann
		Contact person: <u>Dr. (</u> Phone: (804) 786-1755		
	b.			ubject to the CPLRs been applied to this site since July 20,
	0.			stion 6. If yes, answer questions c - e.
		Site size, in hectares:		one hectare = 2.471 acres)
	c. d.			y other than yours that is sending or has sent sewage sludge
	u.			93. If more than one such facility sends sewage sludge to
			nal pages as necessary.	55. If more than one such facility sends sewage studge to
		Facility name: N/A	nai pages as necessary.	
		Facility contact:		
		Title:		
		Phone: ( )		
		Mailing address.		
		Street or P.O. Box:		
		City or Town:	State:	Zip:
	e.			in kg/hectare, for each of the following pollutants:
			Cumulative loading	Allotment remaining
		Arsenic	N/A	
		Cadmium	N/A	
		Copper	N/A	
		Lead	N/A	
		Mercury	N/A	
		Nickel	N/A	
		Selenium	N/A	
		Zinc	N/A	

Complete Questions 7-12 below only if you apply sewage sludge, or you are responsible for land application of sewage sludge. Information required by these questions may be prepared as attachments to this form. Skip the following questions if you contract land application to someone else (as indicated under Section A.7) who is responsible for the operation.

7. **Sludge Characterization.** Use the table below or a separate attachment, provide at least one analysis for each parameter. N/A

PCBs (mg/kg)

pH (S. U.)

Percent Solids (%)

Ammonium Nitrogen (mg/kg)

Nitrate Nitrogen (mg/kg)

Total Kjeldahl Nitrogen (mg/kg)

Total Phosphorus (mg/kg)

Total Potassium (mg/kg)

Alkalinity as CaCO<sub>3</sub>\* (mg/kg)

<sup>\*</sup>Lime treated sludge (10% or more lime by dry weight) should be analyzed for percent CaCO<sub>3</sub>.

#### VPDES PERMIT NUMBER: VA0025020

#### Storage Requirements. N/A

Existing and proposed sludge storage facilities must provide an estimated annual sludge balance on a monthly basis incorporating such factors as storage capacity, sludge production and land application schedule. Include pertinent calculations justifying storage requirements.

Proposed sludge storage facilities must also provide the following information:

- a. A sludge storage site layout on a 7.5 minute topographic quadrangle or other appropriate scaled map to show the following topographic features of the surrounding landscape to a distance of 0.25 mile. Clearly mark the property line.
  - 1) Water wells, abandoned or operating
  - 2) Surface waters
  - 3) Springs
  - 4) Public water supply(s)
  - 5) Sinkholes
  - 6) Underground and/or surface mines
  - 7) Mine pool (or other) surface water discharge points
  - 8) Mining spoil piles and mine dumps
  - 9) Quarry(s)
  - 10) Sand and gravel pits
  - 11) Gas and oil wells
  - 12) Diversion ditch(s)
  - 13) Agricultural drainage ditch(s)
  - 14) Occupied dwellings, including industrial and commercial establishments
  - 15) Landfills or dumps
  - 16) Other unlined impoundments
  - 17) Septic tanks and drainfields
  - 18) Injection wells
  - 19) Rock outcrops
- b. A topographic map of sufficient detail to clearly show the following information:
  - 1) Maximum and minimum percent slopes
  - 2) Depressions on the site that may collect water
  - 3) Drainageways that may attribute to rainfall run-on to or runoff from this site
  - 4) Portions of the site (if any) which are located with the 100-year floodplain and how the storage facility will be protected from flooding
- Data and specifications for the storage facility lining material.
- Plan and cross-sectional views of the storage facility.
- Depth from the bottom of the storage facility to the seasonal high water table and separation distance to the permanent water table.
- 9. Land Area Requirements. Provide calculations justifying the land area requirements for land application of sewage sludge taking into consideration average soil productivity group, crop(s) to be grown and most limiting factor(s) of the sewage sludge, specifically Plant Available Nitrogen (PAN), Calcium Carbonate Equivalence (CCE), and metal loadings (CPLR sewage sludge only), where applicable. Relate PAN, CCE, and metal loadings to demonstrate the most limiting factor for land application. N/A
- Landowner Agreement Forms. Provide a properly completed Sewage Sludge Application Agreement Form
  (attached) for each landowner if sewage sludge is to be applied onto land not owned by the applicant. N/A
- 11. Ground Water Monitoring.

Are any ground water monitoring data available for this land application site? \_\_\_Yes \_\_No If "Yes", submit the ground water monitoring data with this permit application. Also submit a written description of the well locations, approximate depth to ground water, and the ground water monitoring procedures used to obtain these data. N/A

#### VPDES PERMIT NUMBER:VA0025020

#### Land Application Site Information.

(Complete Items a-d for sites receiving infrequent application - land application of sewage sludge up to the agronomic rate at a frequency of once in a 3 year period; complete Items a-h for sites receiving frequent application - land application of sewage sludge in excess of 70% the agronomic rate at a frequency greater than once in a 3 year period) N/A

- a. Provide a general location map for each county which clearly indicates the location of all the land application sites.
- b. For each land application site provide a site plan of sufficient detail to clearly show the concerned landscape features and associated buffer zones (See instructions). Provide a legend for each landscape feature and the net acreage for each field taking into account the proposed buffer zones.
- c. In order to ensure that land application of bulk sewage sludge will not impact federally listed threatened or endangered species or federally designated critical habitat, the applicant must notify the field office of the U. S. Department of the Interior, Fish and Wildlife Service (FWS), by a letter, the proposed land application activities with the identification of the land application sites. The address and phone number of FWS are provided below.

U. S. Fish and Wildlife Service Virginia Field Office P. O. Box 480 White Marsh, VA 23183 TEL: (804)693-6694

Provide a copy of the notification letter with this application form.

- d. Provide a soil survey map, preferably photographically based, with the field boundaries clearly marked. (A USDA-SCS soil survey map should be provided, if available.)
  - Provide a detailed legend for each soil survey map which uses accepted USDA-SCS descriptions of the typifying pedon for each soil series (soil type). Complex associations may be described as a range of characteristics. Soil descriptions shall include as a minimum the following information.
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)

#### Item e - h are required for sites receiving frequent application of sewage sludge

- e. In order to verify the information provided in item d, characterize the soil at each land application site. Representative soil borings or test pits to a depth of five feet or to bedrock if shallower, are to be coordinated for the typifying pedon of each soil series (soil type). Soil descriptions shall include as a minimum the following information:
  - 1) Soil symbol
  - 2) Soil series, textural phase and slope range
  - 3) Depth to seasonal high water table
  - 4) Depth to bedrock
  - 5) Estimated soil productivity group (for the proposed crop rotation)

#### VPDES PERMIT NUMBER: VA0025020

f. Collect and analyze soil samples from each field, weighted to best represent each of the soil borings performed for Item e. Using the table below or a separate attachment, provide at least one analysis per sample for each of the following parameters.

Soil Organic Matter (%)

Soil pH (std. units)

Cation Exchange Capacity (meq/100g)

Total Nitrogen (ppm)

Organic Nitrogen (ppm)

Ammonia Nitrogen (ppm)

Nitrate Nitrogen (ppm)

Available Phosphorus (ppm)

Exchangeable Potassium (mg/100g)

Exchangeable Sodium (mg/100g)

Exchangeable Calcium (mg/100g)

Exchangeable Magnesium (mg/100g)

Arsenic (ppm)

Cadmium (ppm)

Copper (ppm)

Lead (ppm)

Mercury (ppm)

Molybdenum (ppm)

Nickel (ppm)

Selenium (ppm)

Zinc (ppm)

Manganese (ppm)

Particle Size Analysis or

USDA Textural Estimate (%)

- g. Relate the crop nutrient needs to anticipated yields, soil productivity rating and the various fertilizer or nutrient sources from sludge and chemical fertilizers. Describe any specialized agronomic management practices which may be required as a result of high soil pH. If the sludge is expected to possess an unusually high CCE or other unusual properties, provide a description of any plant tissue testing, supplemental fertilization or intensive agronomic management practices which may be necessary.
- h. Using a narrative format and referencing any related charts, describe the proposed cropping system. Show how the crop rotation and management will be coordinated with the design of the land application system. Include any supplemental fertilization program, soil testing and the coordination of tillage practices, planting and harvesting schedules and timing of land application.

## VPDES PERMIT NUMBER: VA0025020

		GE APPLICATION AGREEMENT
	sewage sludge application agreement is made on	this date between, referred to here as the "Permittee".
referi	ed to here as landowner, and	, referred to here as the Permittee .
Land		n the map attached as Exhibit A and designated there as s's land"). Permittee agrees to apply and landowner agrees to comply with
		sewage sludge on landowner's land in amounts and in a manner authorized
condi	itioning to the property. Moreover, landowner c health, the following site restrictions must be a	ation of sewage sludge will be beneficial in providing fertilizer and soil acknowledges having been expressly advised that, in order to protect dhered to when sewage sludge receives Class B treatment for pathogen
1.	Food crops with harvested parts that touch the not be harvested for 14 months after applicate	ne sewage sludge/soil mixture and are totally above the land surface shall tion of sewage sludge;
2.		surface of the land shall not be harvested for 20 months after application of the land surface for four months or longer prior to incorporation
3.		surface of the land shall not be harvested for 38 months after application of the land surface for less than four months prior to incorporation
)	Food crops, feed crops, and fiber crops shall	not be harvested for 30 days after application of sewage sludge;
5.	Animals shall not be grazed on the land for 3	30 days after application of sewage sludge;
6.		applied shall not be harvested for one year after application of the sewage either land with a high potential for public exposure or a lawn, unless rol Board;
7.	Public access to land with a high potential for sewage sludge;	or public exposure shall be restricted for one year after application of
8.	Public access to land with a low potential for sewage sludge.	r public exposure shall be restricted for 30 days after application of
9.		mulate cadmium, should not be grown on landowner's land for three years sorne cadmium equal to or exceeding 0.5 kilograms/hectare (0.45
speci		designee of the proposed schedule for sewage sludge application and owner's land. This agreement may be terminated by either party upon
	Landowner:	Permittee:
	Signature	Signature
	Mailing Address	Mailing Address

### VPDES PERMIT NUMBER: VA0025020

### SECTION D. SURFACE DISPOSAL

Complete this section only if you own or operate a surface disposal site. Provide the information for each active sewage sludge unit.

	mation on Active Sewage Sludge Units. N/A
a.	Unit name or number:
b.	Unit location
	i. Street or Route#:
	County:
	City or Town: State: Zip:
	ii. Latitude: Longitude:
	Method of latitude/longitude determination
	USGS map Filed survey Other
	Topographic map. Provide a topographic map (or other appropriate map if a topographic map is unavailable that shows the site location.
d.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:  dry metric tons.
e.	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:  dry metric tons.
f.	Does the active sewage sludge unit have a liner with a minimum hydraulic conductivity of
	1 x 10 <sup>-7</sup> cm/sec?YesNo If yes, describe the liner or attach a description.
g.	Does the active sewage sludge unit have a leachate collection system?YesNo
	If "Yes", describe the leachate collection system or attach a description. Also, describe the method used for
	leachate disposal and provide the numbers of any federal, state or local permits for leachate disposal:
h.	If you answered "No" to either f or g, answer the following:
	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface
	disposal site?YesNo If "Yes", provide the actual distance in meters:
i.	Remaining capacity of active sewage sludge unit, in dry metric tons: dry metric tons
	Anticipated closure date for active sewage sludge unit, if known:(MM/DD/YYYY)
	Provide with this application a copy of any closure plan developed for this active sewage sludge unit.
Sewa	ge Sludge from Other Facilities. N/A
	wage sludge sent to this active sewage sludge unit from any facilities other than yours?YesNo
	es", provide the following information for each such facility, attach additional sheets as necessary.
a.	Facility name:
b.	Facility contact:
	Title:
	Phone: ( )
2.	Mailing address.
	Street or P.O. Box:
	City or Town: State: Zip:
d	
d.	List, on this form or an attachment, the facility's VPDES permit number as well as the numbers of all other
	federal, state or local permits that regulate the facility's sewage sludge management practices:
	Permit Number: Type of Permit:
e.	Which class of pathogen reduction is achieved before sewage sludge leaves the other facility?
	Class AClass BNeither or unknown
f.	Describe, on this form or on another sheet of paper, any treatment processes used at the other facility to
	reduce nathogens in sewage sludge:

### **VPDES PERMIT NUMBER:VA0025020**

	g.	Which vector attraction reduction option is achieved before sewage sludge leaves the other facility?  Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		None or unknown
	h.	Describe, on this form or another sheet of paper, any treatment processes used at the other facility to reduce
		vector attraction properties of sewage sludge:
	i.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities performed by
		the other facility that are not identified in e - h above:
3.	Vocto	or Attraction Reduction. N/A
3.	a.	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage
	a.	sludge unit?
		Option 9 (Injection below land surface)
		Option 10 (Incorporation into soil within 6 hours)
		Option 11 (Covering active sewage sludge unit daily)
	b.	Describe, on this form or another sheet of paper, any treatment processes used at the active sewage sludge
		unit to reduce vector attraction properties of sewage sludge:
4.	Crow	nd Water Monitoring. N/A
7.	a.	Is ground water monitoring currently conducted at this active sewage sludge unit or are ground water
	a.	monitoring data otherwise available for this active sewage sludge unit?YesNo
		If "Yes", provide a copy of available ground water monitoring data. Also provide a written description of the
		well locations, the approximate depth to ground water, and the ground water monitoring procedures used to
		obtain these data.
	b.	Has a ground water monitoring program been prepared for this active sewage sludge unit?
		YesNo If "Yes", submit a copy of the ground water monitoring program with this application.
	c.	Have you obtained a certification from a qualified ground water scientist that the aquifer below the active
		sewage sludge unit has not been contaminated?YesNo
		If "Yes", submit a copy of the certification with this application.
5.		Specific Limits. N/A
		ou seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?
		esNo If "Yes", submit information to support the request for site-specific pollutant limits with this
	applic	cation.

## PUBLIC NOTICE BILLING INFORMATION FORM

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9 VAC 25-31-290.C.2:

Newspaper Name:	The Roanoke Times
Agent/Department to be	oilled: _Western Virginia Water Authority_
Owner:	Western Virginia Water Authority
Applicant's Address:	_1502 Brownlee Avenue, S.E
	Roanoke, VA 24014
Agent's Telephone No:	_(540) 853-1283
Authorizing Agent:	Michael J. M. Ez
	Michael T. McEvoy
	Printed Name
	Executive Director, Wastewater Services Title
Date	8-21-203
Facility Name:	Western Virginia Water Authority Water Pollution Control Plan
Permit No.	VA0025020
Please return to:	
	Becky L. France
	Department of Environmental Quality
	3019 Peters Creek Road

Roanoke, VA 24019 Fax No. (540) 562-6725



#### Improving the environment, one client at a time...

REIC Laboratories, Inc. PO Box 286 Beaver, WV 25813 TEL: 304,255,2500

Website: www.rciclabs.com

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276 101 17th Street Ashland, KY 41101 TEL: 606.393.5027 1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.777.1276 16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Thursday, April 11, 2013

Ms. Janis Richardson
WESTERN VA WATER WWTP
1502 BROWNLEE AV SE
ROANOKE, VA 24014

TEL: (540) 853-1517 FAX: (540) 853-1307

RE: VPDES PERMIT APPLICATION

Work Order #: 1304588
Dear Ms. Janis Richardson:

REI Consultants, Inc. received 5 sample(s) on 4/4/2013 for the analyses presented in the following report. Sincerely,

Joy Castle

Project Manager



## REI Consultants, Inc. - Case Narrative

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

This report may not be reproduced, except in full, without the written approval of REIC.

#### DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume),

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

#### QUALIFIERS:

\*: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

#### **CERTIFICATIONS:**

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, FLDOH (NELAC) E87958, VADCLS(VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, FLDOH (NELAC) E871055, VADCLS(VELAP) 460149

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-01A

Client Sample ID:

GRAB 1

Collection Date:

4/4/2013 10:50:00 AM

Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed		
Field Parameters		Metho	d: FLD				Analyst:		
FieldSampler	MV	NA		NA					
OIL and GREASE		Method: E1664A							
Oil & Grease	ND .	NA	5.0	NA		mg/L	4/9/2013 9:00 AM		

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-02A

Client Sample ID:

GRAB 2

**Collection Date:** 

4/4/2013 11:05:00 AM

Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis		Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters			Metho	d: FLD				Analyst:
FieldSampler		MV	NA		NA			
OIL and GREASE			Metho	d: E1664	Analyst: MC			
Oil & Grease	•	ND	NA	5.0	NA		mg/L	4/9/2013 9:00 AM

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-03A

Client Sample ID:

GRAB 3

**Collection Date:** 

4/4/2013 11:20:00 AM

Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD				Analyst:
FieldSampler	MV	NA		NA		•	
OIL and GREASE		Analyst: MC					
Oil & Grease	ND	NA	5.0	NA		mg/L	4/9/2013 9:00 AM

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-04A

Client Sample ID:

GRAB 4

**Collection Date:** 

4/4/2013 11:35:00 AM

Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	od: FLD				Analyst:
FieldSampler.	MV	NA	•	NA			
ACROLEIN BY E624		Metho	od: E624				Analyst: RE
Acrolein	ND	NA	10	NA		µg/L	4/9/2013 2:46 PM
Notes:							
The holding time was exceeded for Acrolein.							
VOLATILE ORGANIC COMPOUNDS		Metho	od: E624				Analyst: RB
Benzene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Bromodichloromethane	3.3	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Bromoform	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Bromomethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Carbon tetrachloride	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Chlorobenzene	ND	NA	1.0	NA		μq/L	4/9/2013 2:46 PM
Chloroethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Chloroform	14.9	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Chloromethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Dibromochloromethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
1,1-Dichloroethene	ND	NA	1.0	·NA		μg/L	4/9/2013 2:46 PM
trans-1,2-Dichloroethene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
1,2-Dichloropropane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
cis-1,3-Dichloropropene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
trans-1,3-Dichloropropene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Ethylbenzene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Methylene chloride	ND	NA	1.0	. NA		μg/L	4/9/2013 2:46 PM
1,1,2,2-Tetrachloroethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Tetrachloroethene	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Toluene	ND	NA	1.0	NA		μq/L	4/9/2013 2:46 PM
1,1,1-Trichloroethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
1,1,2-Trichloroethane	ND	NA	1.0	NA		µg/L	4/9/2013 2:46 PM
Trichloroethene	ND	NA	1.0	NA		µg/L	4/9/2013 2:46 PM
Trichlorofluoromethane	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Vinyl chloride	ND	NA	1.0	NA		μg/L	4/9/2013 2:46 PM
Surr: 1,2-Dichloroethane-d4	109	NA	73.2-133	NA		. %REC	4/9/2013 2:46 PM
Surr: Toluene-d8	97.5	NA	71-132	NA		%REC	4/9/2013 2:46 PM
Surr: 4-Bromofluorobenzene	96.7	NA	74.2-129	NA		%REC	4/9/2013 2:46 PM
VOLATILE ORGANIC COMPOUNDS-624		Metho	d: E624				Analyst: RB
2-Chloroethyl vinyl ether	ND	NA	5.0	NA		μg/L	4/9/2013 2:46 PM
Acrylonitrile	ND	NA	10	NA		μg/L	4/9/2013 2:46 PM
Surr: 1,2-Dichloroethane-d4	109	NA	73.2-133	NA		%REC	4/9/2013 2:46 PM

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-04A

Client Sample ID:

GRAB 4

**Collection Date:** 

4/4/2013 11:35:00 AM

Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Surr: Toluene-d8	97.5	NA	71-132	NΑ		%REC	4/9/2013 2:46 PM
Surr: 4-Bromofluorobenzene	96.7	NA	74.2-129	NA		%REC	4/9/2013 2:46 PM
OIL and GREASE		Metho	od: E1664	A			Analyst: MC
Oil & Grease	ND	NA	5.0	NA		mg/L	4/10/2013 9:00 AM
PHENOLICS	•	Metho	od: E420.1	l			Analyst: BA
Phenolics	ND	NA	0.010	NA		mg/L	4/10/2013 12:30 PM
Cyanide		Metho	od: E335.4				Analyst: JJ
Cyanide, Total	ND ·	NA	0.020	NA		mg/L	4/8/2013 10:48 AM

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-05A

Client Sample ID:

COMP

**Collection Date:** 

4/4/2013 12:00:00 PM

Date Received:

4/4/2013 8:25:25 PM

Matrix: Site ID:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD				Analyst:
FieldSampler	MV	NA		NA			
HARDNESS		Metho	d: SM23	40 B	E200	0.2	Analyst: LF
Hardness, Total (As CaCO3)	192	NA	1.00	NA		m <b>g</b> /L	4/8/2013 4:40 PM
SEMIVOLATILE ORGANIC COMPOUNDS		Metho	d: E625		SW3	510	Analyst: JD
Acenaphthene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Acenaphthylene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Anthracene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzidine	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzo(a)anthracene	ND	NA .	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzo(a)pyrene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzo(b)fluoranthene	ND	NA .	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzo(g,h,i)perylene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Benzo(k)fluoranthene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Bis(2-chloroethoxy)methane	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Bis(2-chloroethyl)ether	ND	NA .	0.0103	NA		mg/L	4/10/2013 12:20 AM
Bis(2-chloroisopropyl)ether	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Bis(2-ethylhexyl)phthalate	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
4-Bromophenyl phenyl ether	ND	NA	0.0103	NA		, mg/L	4/10/2013 12:20 AM
Butyl benzyl phthalate	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
4-Chloro-3-methylphenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2-Chloronaphthalene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2-Chlorophenol	. ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
4-Chlorophenyl phenyl ether	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Chrysene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
o-Cresol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
m,p-Cresol	ND	NA	0.0206	NA		mg/L	4/10/2013 12:20 AM
Dibenzo(a,h)anthracene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Di-n-butyl phthalate	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
1,2-Dichtorobenzene	ND	NA	0.0103	NA	i	mg/L	4/10/2013 12:20 AM
1,3-Dichlorobenzene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
1,4-Dichlorobenzene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
3,3'-Dichlorobenzidine	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2,4-Dichlorophenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Diethyl phthalate	ND	NA:	0.0103	NA		mg/L	4/10/2013 12:20 AM
Dimethyl phthalate	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2,4-Dimethylphenal	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
4,6-Dinitro-2-methylphenol	ND	NA	0.0103	NΑ		mg/L	4/10/2013 12:20 AM
2,4-Dinitrophenol	ND	NA	0.0103	NA		mq/L	4/10/2013 12:20 AM

WO#: 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Lab ID:

1304588-05A

Client Sample ID:

COMP

**Collection Date:** 

4/4/2013 12:00:00 PM

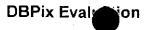
Date Received:

4/4/2013 8:25:25 PM

Matrix:

Waste Water

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
2,4-Dinitrotoluene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2,6-Dinitrotaluene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Di-n-octyl phthalate	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
1,2-Diphenylhydrazine	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Fluoranthene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Fluorene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Hexachlorobenzene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Hexachlorobutadiene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Hexachlorocyclopentadiene	ND	NĄ	0.0103	NA		mg/L	4/10/2013 12:20 AM
Hexachloroethane	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Indeno(1,2,3-cd)pyrene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Isophorone	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Naphthalene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Nitrobenzene	, ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2-Nitrophenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
4-Nitrophenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
N-Nitrosodimethylamine	ND	NA	0.0103	NA		mg/L `	4/10/2013 12:20 AM
N-Nitrosodiphenylamine	ND	NA	0.0103	NA		ma/L	4/10/2013 12:20 AM
N-Nitrosodi-n-propylamine	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Pentachlorophenol	ND	ΝA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Phenanthrene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Phenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Pyrene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
1,2,4-Trichlorobenzene	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
2,4,6-Trichlorophenol	ND	NA	0.0103	NA		mg/L	4/10/2013 12:20 AM
Surr: 2-Fluorophenol	44.9	NA	3.97-110	NA		%REC	4/10/2013 12:20 AM
Surr: Phenol-d5	32.8	NA	19-110	NA		%REC	4/10/2013 12:20 AM
Surr: 2,4,6-Tribromophenol	84.2	NA	74.8-110	NA		%REC	4/10/2013 12:20 AM
Surr: Nitrobenzene-d5	91.6	NA	66.4-110	NA	<b>-</b> .	%REC	4/10/2013 12:20 AM
Surr: 2-Fluorobiphenyl	79.6	NA	64.5-110	NA		%REC	4/10/2013 12:20 AM
Surr: 4-Terphenyl-d14	55.2	NA	72.6-110	NA.	5	%REC	4/10/2013 12:20 AM
ANIONS by ION CHROMATOGRAPHY		Metho	od: SM41	10B			Analyst: CF
Nitrogen, Nitrate-Nitrite	9.10	NA	1.00	NA		mg/L	4/5/2013 10:51 AM
AMMONIA NITROGEN		Metho	od: E350.	1 .			Analyst: JJ
Nitrogen, Ammonia (As N)	ND	NA	0.10	NA		mg/L	4/5/2013 3:50 PM
TOTAL DISSOLVED SOLIDS		Metho	od: SM254	10 C			Analyst: SF
Total Dissolved Solids	359	NA	10	NA		mg/L	4/6/2013 11:16 AM



None/Inv/17/15

4-4-13

Retrouseed by exportures

CHAIN OF CUSTODY RECOF	tD.	v8-0612	ONLY CLIENT I	WES113	DATE SHEET
^	Client:	WWA .	PÓ#PÓ#		
DELC	Contact Pe	erson JANIS RICH	ARDSON	Phone 540-0853-1517	
W I REIC	Address	1502 BROWNLE	E AVE SE	City F	OANOKE State VA Zip 24014
	Billing Ado	dress (if different)	QUOTE 1706		
Research Environmental & Industrial Consultants, Inc.			City		StateZip
MAIN LABORATORY & CORPORATE HEADQUARTERS: P.O. Box 286 - 225 Industrial Park Rd, Beaver, WV 25813 800-999-0105 - 304-255-2500 - www.relclabs.com	Site ID & St	rate		)	Sampler Moff Voss
MID-ONIO VALLEY   SHENANDOAH   ROANOKE			1684 OG CYANIE		
SAMPLE LOG & ANALYSIS R		enugranethologican among	MET HOD	TAL PHENOLICS	, *
TURNAROUND TIME RUSH TURN  O NORMAL O S DAY 3 DAY  *Rush work needs prior laboratory approval and will in	O 2 DAY O 1 D	4	ANALYSIS & M	NH3 N	
SAMPLE ID No. & Type of Containers Samplin	ng Date/Time Ma	Sample		<del>1        </del>	<b>–</b>
	.,,	Comp/Grail	P   全  全  5   -	0 3 0	÷ 1 <b>43</b>
GRAB 1 4-4-13			XXXX	0 3 0	0 None 5 Sodium Hydroxid 1 Hydrochloric Acid 6 Zinc Acetate
GRAB 1 4-4-13 GRAB 2 4-4-1	/loso ww	/ater Grab	XXXX XXXX	0 3 0	0 None 5 Sodium Hydroxid
	Joso www	/ater Grab		0 3 0 -	0 None 5 Sodium Hydroxid 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA
GRAB 2 4-4.,	Joso www	/ater Grab /ater Grab /ater Grab		6 3 0 -	0 None 5 Sodium Hydroxid 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitrle Acid 7 EDTA 3 Sulfuric Acid 8 Ascarbic Acid
GRAB 2 4-4-1 GRAB 3 4-4-0	/1050 WW /11:05 WW	later Grab later Grab later Grab later Grab		6 3 0 -	0 None 5 Sodium Hydroxid 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA 3 Sulfuric Acid 8 Ascorbic Acid 4 Sodium Thiosulfate
GRAB 2 4-4-1 GRAB 3 4-4-0	1050 WW 11:05 WW 11:35 WW 11:35 WW	fater Grab fater Grab fater Grab fater Grab fater Grab fater Grab fater Choose		(d) (3) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	0 None 5 Sodium Hydroxid 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA 3 Sulfurk Acid 8 Ascorbic Acid 4 Sodium Thiosulfate
GRAB 2 4-4-5 GRAB 3 4-4-5 GRAB 4 4 -4-5 COMP H	11:35 WW. 11:35 WW. 11:35 WW.	later Grab later Grab later Grab later Grab later Grab Choose later Comp		(d) (3) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	0 None 5 Sodium Hydroxide 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA 3 Sulfuric Acid 8 Ascorbic Acid 4 Sodium Thiosulfate
GRAB 2 4-4-5 GRAB 3 4-4-5 GRAB 4 4-4-5 COMP H	1050 WW 11:05 WW 11:35 WW 11:35 WW	fater Grab fater Grab fater Grab fater Grab fater Grab fater Choose fater Comp fater Choose		C   3   U	0 None 5 Sodium Hydroxide 1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA 3 Sulfurk Acid 8 Ascorbic Acid 4 Sodium Thiosulfate

Dans/Drag

Date/Time

Redrigioshed by (signature)

Received by (signature)

Date/Rang

Date/Time

# **REI Consultants, Inc.**Auto Sampler Records (Rev. 3-2010)

Client Sample Name:	WWA	
Site Location:		
Sampling Event:		

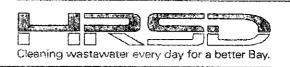
Auto Sampler Program	Composite Mode
Beginning Date	4-3-13
Beginning Time	12:00
Ending Date	4-4-13
Ending Time	13:00
Addition of Ice	1 have
Sample Retrieval	7
Date .	4-4-13
Time	19:00
Number of samples taken	96 of 96
Ice Remaining (yes/no)	Yes
Temperature of Ice	
Date	4-4-13
Time	12:00
Initials	Mu

Comments:			
			,
	 	-	

REI Consultants, Inc.

3029-C Peters Creek Rd, Roanoke, VA 24019 Phone: 540-777-1276





1432 Air Rail Avenue, Virginia Beach, VA 23455-3002 • 757.460.4205 • Fax: 757.460.6586 • www.hrsd.com

# 04/04/13 - Western Virginia Water Authority

This analytical report contains 5 pages

Janis Richardson
Environmental Programs Coordinator
Western Virginia Water Authority
1502 Brownlee Avenue, SE
Roanoke, VA 24014

Janis.Richardson@WesternVaWater.org

Date Sent:

04/23/13

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011 Effective Date: June 15, 2012 Expiration Date: June 14, 2013 Certificate # 1612

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

This report may not be reproduced, except in full, without written approval from HRSD.

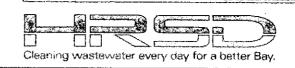
If you have any questions concerning this report, please do not hesitate to contact
Danny Barker, TSD Environmental Scientist at (757) 460-4247

dbarker@hrsd.com
Robin Parnell, CEL Laboratory Manager at (757) 460-4203.

rparnell@hrsd.com
Cindi Reno, CEL Administrative Assistant at (757) 460-4205.

creno@hrsd.com





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### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

**Customer Sample ID:** 

Field Blank

Project Code:

WVWA

Sample Point:

FB

Sample Date:

04/04/13

				Report			Analysis
Analyte	Method	Unit	Result	Limit <sup>1</sup>	Analyst	Analysis Date	Time
Antimony Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	04/11/13	11:33
Arsenic Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	04/11/13	11:33
Beryllium Total	EPA 200.8	ug/L	<0.10	0.10	KWILLI	04/11/13	11:33
Cadmium Total	EPA 200.8	ug/L	< 0.05	0.05	KWILLI	04/11/13	11:33
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	04/11/13	11:33
Copper Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	04/11/13	11:33
Lead Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	04/11/13	11:33
Mercury Total	EPA 245.1	ug/L	< 0.10	0.10	SWILLI	04/12/13	12:33
Nickel Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	04/11/13	11:33
Selenium Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	04/11/13	11:33
Silver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	04/11/13	11:33
Thallium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	04/11/13	11:33
Zinc Total	EPA 200.8	սջ/Լ.	<1.0	1.0	KWILLI	04/11/13	11:33

 $\frac{\textbf{Notes}}{^{l}} \textit{Report Limit is lowest concentration at which quantitation is demonstrated.}$ 

Authorization: Lab Manager / QA Manager Date: 4/19/13



1432 Air Rail Avenue, Virginia Beach, VA 23455-3002 • 757.460.4205 • Fax: 757.460.6586 • www.hrsd.com

### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

Customer Sample ID: Project Code:

Final Effluent

Sample Point:

WVWA

Sample Date:

FNE 04/04/13

		Report									
Analyte	Method	Unit	Result	Limit <sup>!</sup>	Analyst	Analysis Date	Analysis Time				
Antimony Total	EPA 200.8	ug/L	<1.0	. 1.0	KWILLI	04/11/13	11:39				
Arsenic Total	EPA 200.8	ug/L	<1,0	1.0	KWILLI	04/11/13	11:39				
Beryllium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILL1	04/11/13	11:39				
Cadmium Total	EPA 200.8	ug/L.	<0.05	0.05	KWILLI	04/11/13	11:39				
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	04/11/13	11:39				
Copper Total	EPA 200.8	ug/L	5.25	0.50	KWILLI	04/11/13	11:39				
Lead Total	EPA 200.8	ug/L	0.34	0.10	KWILLI	04/11/13	11:39				
Mercury Total	EPA 245:1	ug/L	< 0.10	0.10	SWILLE	04/12/13	12:36				
Nickel Total .	EPA 200.8	ug/L	1.66	0.50	KWILLI	04/11/13	- 11:39				
Selenium Total	EPA 200.8	ug/L	< 0.50	0,50	KWILLI	04/11/13	11:39				
Sílver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	04/11/13	11:39				
Thallium Total	EPA 200.8	ug/L	< 0.10	0.10	ŔWILLI	04/11/13	11:39				
Zine Total	EPA 200.8	ug/L	21.6	1.0	KWILLI	04/11/13	11:39				

 $\frac{\text{Notes}}{l}$  Report Limit is lowest concentration at which quantitation is demonstrated.

Authorization:

Lab Manager / QA Manager



# CENTRAL ENVIRONMENTAL LABORATORY QUALITY ASSURANCE REPORT Level 1



# CENTRAL ENVIRONMENTAL LABORATORY QUALITY ASSURANCE REPORT Level 1

Project:

Western Virginia Water Authority

Project Code:

WVWA

Sample Point:

**FNE** 

Sample Date:

04/04/13

Analytical Run Information	Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	TI	Zn
Method	200.8	200.8	200.8	200.8	200.8	200.8	200.8	245.1	200.8	200.8	200.8	200.8	200.8
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Limit of Detection (LOD)	0.22	0.06	0.01	0.006	0.04	0.09	0.01	0.03	0.08	0.12	0.05	0.03	0.24
Limit of Quantitation (LOQ)	1.0	1.0	0.10	0.05	1.00	0.50	0.10	0.10	0.50	0.50	0.10	0.10	1.00
Method Blank (MB)	< 0.22	< 0.06	< 0.01	< 0.006	< 0.04	< 0.09	0.02*	< 0.03	< 0.08	< 0.12	< 0.05	< 0.03	< 0.24
Total Metals										· · · · · · · · · · · · · · · · · · ·			
Sample ID: WVWA FNE													
Matrix Spike Conc.								1.0					
MS Percent Recovery								94%					
MSD Percent Recovery								91%					
MS/MSD RPD								2%					

<sup>\*</sup>Report Limit is lowest concentration at which quantitation is demonstrated. Values below report limit should not be used for compliance determination due to a high degree of uncertainty.

Validated By:

Date: 4/19/13

Paga_	L	_ of	

HRS	D	CENTRAL 1432 AIR RA VIRGINIA BE	IL AVENUE		AL LABOR	RATORY								CH	IAIN	OF (	CUST	OD'	Y					
Carry Market Strayon C	TODS BY	TEL: 757-460 FAX: 757-460	-4214								-	A	NALYSE	S REQ	DESTER	, CGN 8	NUMBE	R OF C	ONTAIN	iers				
PROJECT NAME/CO	DDE: <u>WVW.</u>					·		Total Metals (S)			E												Project (i Yes No	<u> </u>
CUSTOMER	HRSD	Use Only	DATE	TINE	SAMPLEO	Circle One	Circle One	·															HRSD U	se Only
SAMPLE ID	CODE	POINT			BY	MATINA	TYPE	<b>电影</b>			100	***			0.00								Checked	COUNT
Field Blank	WWW	fB .	41313-441	13 1404 14		L	c	1 -							ļ	<u> </u>				<u> </u>	ļ		1	<u> </u>
Efficient	WVYYA	FNE		<u> </u>	<u> 18/L</u> lar	L	c	1 -	<u> </u>	<b></b>			<b>-</b>	├─	<del> </del>	<del></del>				ļ	_	<u> </u>	-	<del>}                                    </del>
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		<u> </u>	<del>                                     </del>		··· · · · · - · · -															<del>                                     </del>		$\vdash$		
							-																	
COMMENTS:	Lvia	/1 Cou	ier S	emi	ee)-	4/1	4/9/13														Jemp.	Blankd .	ilar (Jac C	Ç.
		<b>编制和加州</b>			<b>建设的</b>	A. 2,12,2.		Ter	np. Re	quiren	ent							*Pres	ervativ	/es				
Retinquished by / Signat			~		Date/Time	<u>04/08/13</u>	1203			- 4 4			'Hg, Mel	als (pH<	2 - HNO3	(Clean n	rotals che	ck in sec	lion)			·		
Received by / Signature	Aug	MO			Date/Time C	04/08/11	5 1203		re requir les were				'O&G (p	H<2 - HC	l, check i	n section)	& store <	6°C						
Refinquished by / Signat	ие	<i>[]</i>	/		Dete/Time	<del>, , ,</del>		coola	rs mainte	lined at	€ 6 °C.		CM. (oH)	12 - NeC	)H) & slo	e <u>≤</u> 5°C						<u>-</u>		
Received by / Signature		wy.ff	14		Date/Time	4/9/1	3 081	Þ					*Sulfida (	ρH>9 - N	laOH+Zn	Ac) & sto	9 <u>≤</u> 6 °C							
Relinquished by / Signate	же /	/_			Date/Time	$\frac{T}{T}$		Yes	<u>. W</u>	No			*Micro (N	la <sub>3</sub> S <sub>2</sub> D <sub>3</sub> ·	EDTA)	k store <	10°C							
Received by / Signature		٤			Date/Time					1	i)	ļ	'COD, N	UT, Pher	nois						(pH<2 -	H <sub>2</sub> SO <sub>4</sub> ) &	store <u>&lt;</u> 6 °C	>
Refinquished by I Signati	1/6 2/6				Date/Time			l	int_@	1/2/	7				O4) & sk									
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2007年,五名主义是									8 A 4								ganics sie		;					• • • • • • • • • • • • • • • • • • • •
Ali sample(e) met prope	r 'preservali	on sequisemen	1s.		Yes ,		No	<u>.</u>	Int		•	-	-cr(VI)	ц <b>н</b>	- 9-1 - (1	¥n₄)₂SU	a) & ston	7 <u>5</u> 0 C						

Sample Type: C=Composite, G=Grato Matrix: L= Liquid, S = Solid NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.

CGN: Container Group Number

W

. 1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

1664\_HEM

Sample ID:	LCS-R301076	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	te:	Ru	ınNo:	301076	
Client ID:	LCSW	Batch ID:	R301076		TestNo:	E1664A			Analysis	Date:	4/9/2013 Se	eqNo:	4454429	
Analyte			Result	PQL	SPK value	SPK Ref Val	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			36.2	5.0	40.0	0	l	90.5	77.9	114.1				
Sample ID:	LCSD-R301076	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	ınNo:	301076	
Client ID:	LCSS02	Batch ID:	R301076		TestNo:	E1664A			Analysis	Date:	4/9/2013 Se	qNo:	4454430	
Analyte		<b></b>	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			36.8	5.0	40.0	0		92.0	77.9	114.1	36.2	1.6	20	
Sample ID:	MB-R301076	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	ınNo:	301076	
Client ID:	PBW	Batch ID:	R301076		TestNo:	E1664A			Analysis	Date	<b>4/9/2013</b> Se	qNo:	4454431	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease		<b>-</b>	ND	5.0										
Sample ID:	LCS-R301173	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	301173	
Client ID:	LCSW	Batch ID:	R301173		TestNo:	E1664A			Analysis	Date:	<b>4/10/2013</b> Se	qNo:	4456283	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			34.7	5.0	40.0	0		86.8	77.9	114.1			· ·	
Sample ID:	LCSD-R301173	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e: '	Ru	nNo:	301173	
Client ID:	LCSS02	Batch ID:	R301173		TestNo:	E1664A			Analysis	Date:	<b>4/10/2013</b> Se	qNo:	4456284	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			35.7	5.0	40.0	0		89.2	77.9	114.1	34.7	2.8	20	
Sample ID:	MB-R301173	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Date	e;	Ru	nNo:	301173	
Client ID:	PBW	Batch ID:	R301173		TestNo:	E1664A			Analysis	Date:	-4/10/2013 Se	qNo:	4456285	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit -	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			ND	5.0									<del></del>	

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VPDES PERMIT APPLICATION

Test Code:

Sample ID: 8260/624 LCS	Samp Type:	LCS	Т	est Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	inNo:	301146	
Client ID: LCSW	Batch ID:	R301146	Т	estNo:	E624			Analysis	Date:	4/9/2013 Se	qNo:	4455769	
Analyte	ł	Result	PQL	SPK value	SPK Ref Va	ıl	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene		10.3	1.0	10	(	)	103	77	150				
Bromodichloromethane		11.5	1.0	10	C	)	115	17	157				
Bromoform		10.3	1.0	10	C	)	103	22	157				
Bromomethane		9.8	1.0	10	(	)	98.5	0	242				
Carbon tetrachloride		12.6	1.0	10	0	)	126	59	127				
Chlorobenzene		11.2	1.0	10	C	)	112	91	151				
Chloroethane		9.1	1.0	10	C	)	91.1	0	258				
Chloroform		11.3	1.0	_ 10	C	)	113	50	153				
Chloromethane		7.2	1.0	10	C	)	71.9	0	279				
Dibromochloromethane		11. <del>4</del>	1.0	. 10	C	)	114	47	154				
1,1-Dichloroethene		10.8	1.0	10	C	)	108	0	237				
trans-1,2-Dichloroethene		10.3	1.0	· 10	C	)	103	52	158				
1,2-Dichloropropane		9.6	1.0	10	C	)	96.4	0	210				
cis-1,3-Dichloropropene		9.6	1.0	10	C	)	96.5	0	227				
trans-1,3-Dichloropropene		10.2 <sub>.</sub>	1.0	10	C	)	102	17	183				
Ethylbenzene		10.7	1.0	10	0	)	107	87	159	•			
Methylene chloride		9.4	1.0	10	0	) .	94.5	O	286	,			
1,1,2,2-Tetrachloroethane		9.4	1.0	10	0	)	94.4	47	175				
Tetrachloroethene		10.8	1.0	10	0	)	108	79	145				
Toluene		10.5	1.0	10	0	1	105	79	145				
1,1,1-Trichloroethane	•	12.0	1.0	10	0	)	120	65	162				
1,1,2-Trichloroethane		9.8	1.0	10	0	1	97.6	63	161				
Trichloroethene		10.6	1.0	10	0	)	106	75	178			•	
Trichlorofluoromethane		11.2	1.0	10	0	)	112	27	179				
Vinyl chloride .		7.6	1.0	10	0	)	75.6	0	259			•	
Surr: 1,2-Dichloroethane-d4		11.1		10			111	74	140				
Surr: Toluene-d8		9.9		10			98.6	71.1	126				
Surr: 4-Bromofluorobenzene		10		10			100	75.9	129		-		

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Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID: BLANK	Samp Type:	MBLK	•	Test Code:	624_L	Units:	µg/L	Prep Dat	e:	Ru	nNo:	301146	
Client ID: PBW	Batch ID:	R301146		FestNo:	E624			Analysis	Date:	4/9/2013 Sec	qNo:	4455770	
Analyte	F	Result	PQL	SPK value	SPK Ref \	/al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene		ND	1.0										
Bromodichloromethane		ND	1.0										
Bromoform		ND	1.0										
Bromomethane		ND	1.0										
Carbon tetrachloride		ND	1.0			•				•			
Chlorobenzene		ND	1.0										
Chloroethane		ND	1.0										
Chloroform		ND	1.0										
Chloromethane		ND	1.0										
Dibromochloromethane		ND	1.0										
1.1-Dichloroethene		ND	1.0										
trans-1,2-Dichloroethene		ND	1.0							•			
1,2-Dichloropropane		ND	1.0										
cis-1,3-Dichloropropene		ND	1.0										
trans-1,3-Dichtoropropene		ND	1.0						-				
Ethylbenzene		ND	1.0		_								
Methylene chloride		ND	1.0										
1,1,2,2-Tetrachloroethane		ND	1.0										
Tetrachloroethene		ND	1.0										
Toluene		ND	1.0										
1,1,1-Trichloroethane		ND	1.0										
1,1,2-Trichloroethane		ND	1.0										
Trichloroethene		ND	1.0										
Trichlorofluoromethane		ND	1.0										
√inyl chloride		ND	1.0										
Surr: 1,2-Dichloroethane-d4		10.5		10			105	73.2	133				
Surr: Toluene-d8		9.4		10			94.0	71	132	•			
Surr: 4-Bromofluorobenzene		9.7		10		-	96.9	74.2	129				



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Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID: 8	8260/624 LCS	Samp Type:	LCS	. 1	est Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	ınNo;	301146	
Client ID: L	LCSW	Batch ID:	R301146	٦	estNo:	E624		-	Analysis	Date:	4/8/2013 Se	qNo:	4455794	
Analyte	·		Result	PQL	SPK value	SPK Ref Va	ıl %	6REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			10.2	1.0	10	(	)	102	77	150			<del>-</del>	
Bromodichlorom	nethane		11.7	1.0	10	(	)	117	17	157				
Bromoform			11.0	, 1.0	10	(	)	110	. 22	157				
Bromomethane			9.9	1.0	10	1	)	98.6	0	242				
Carbon tetrachio	oride	-	12.9	1.0	10	(	)	129	59	130				
Chlorobenzene			10.2	1.0	10	(	כ	102	91	151				
Chloroethane			9.0	1.0	10	(	)	90.2	0	258				
Chloroform		-	11.4	1.0	10	. (	)	114	50	153				
Chloromethane			7.2	1.0	10	(	)	71.6	0	279				
Dibromochlorom	nethane		11.3	1.0	-10	(	)	113	47	154				
1,1-Dichloroethe			10.7	1.0	10	(	)	107	0	237				
trans-1,2-Dichlo			10.5	1.0	10	(	,	105	52	158				
1,2-Dichloroprop			9.9	1.0	10	(	)	99.2	0	210				
cis-1,3-Dichloror			10.8	1.0	10	(	)	108	0	227				
trans-1,3-Dichloi	ropropene	•	10.8	1.0	10	(	)	108	17	183				
Ethylbenzene			10.8	1.0	10	(	)	108	87	159			,	
Methylene chlori	ide		9.4	1.0	10	. (	)	93.6	0	286				
1.1,2,2-Tetrachlo	oroethane		9.6	1.0	10	(	)	96.2	47	175				
Tetrachloroether	ne		11.1	1.0	10		)	111	79	145				
Toluene			10.4	1.0	10	(	)	. 104	79	145				
1,1,1-Trichloroet	thane		12.2	1.0	10	(	)	122	65	162				
1,1,2-Trichloroet	thane		10.2	1.0	10	C	)	102	63	161				
Trichloroethene			11.0	1.0	10	٠ (	)	110	75	178				
Frichlorofluorom	ethane		11.8	1.0	10	C	)	118	27	179				
/inyl chloride			8.0	1.0	10	C	)	79.6	0	259			-	
Surr: 1,2-Dich	loroethane-d4		11.3		10			113	74 -	140				
Surr: Toluene-	-d8		10	•	10			99.8	71.1	126				
Surr: 4-Bromo	fluorobenzene		10.1		10			101	75.9	129				



Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID: BLANK	. Samp Type:	MBLK	٦	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	301146	
Client ID: PBW	Batch ID:	R301146	1	TestNo:	E624			Analysis	Date:	<b>4/8/2013</b> Se	qNo:	4455795	
Analyte		Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene		ND .	1.0										
Bromodichloromethane		ND	1.0										
Bromoform		ND	1.0					•					•
Bromomethane		ND	1.0										
Carbon tetrachloride		ND	1.0.									•	
Chlorobenzene		ND	1.0										
Chloroethane	_	ND	1.0										
Chloroform		ND	1.0										
Chloromethane		ND	1.0					,					
Dibromochloromethane	•	ND	1.0		-				•				
1,1-Dichloroethene		ND	1.0										
trans-1,2-Dichloroethene		ND	1.0			•	Ē						
1,2-Dichloropropane		ND	1.0										
cis-1,3-Dichloropropene		ND	1.0										
trans-1,3-Dichloropropene		ND	1.0										
Ethylbenzene		ND	1.0										
Methylene chloride		ND	. 1.0				-						
1,1,2,2-Tetrachloroethane		ND	1.0										
Tetrachloroethene		ND	1.0							•			
Toluene		ND	1.0										
1,1,1-Trichloroethane		ND	1.0	•									
1,1,2-Trichloroethane		ND	1.0										
Trichloroethene		ND	1.0										
Trichlorofluoromethane		ND	1.0										
Vinyl chloride		ND	1.0										
Surr: 1,2-Dichloroethane-d4		11.1		10			111	73.2	<sup>-</sup> 133			•	
Surr: Toluene-d8		9.8		10			97.7	71	132				
Surr: 4-Bromofluorobenzene		9.6		10			96.2	74.2	129				



Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID:	MB-42442	Samp Type:	MBLK		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	e:	<b>4/9/2013</b> Ru	nNo:	301112	
Client ID:	PBW	Batch ID:	42442		TestNo:	E625	SW351	0	Analysis	Date:	4/9/2013 Se	qNo:	4455000	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthen	е	<del>-</del>	ND	0.0100				-			<u> </u>			
Acenaphthyle	ene		ND	0.0100										
Anthracene	•		ND	0.0100										
Benzidine			ND	0.0100								•		
Benzo(a)anth	racene		ND	0.0100										
Benzo(a)pyre	ne		ND	0.0100										
Benzo(b)fluor	anthene		ND	0.0100										
Benzo(g.h.i)po	erylene		ND	0.0100										
Benzo(k)fluora	anthene		ND	0.0100							-			
	lhoxy)methane		ND	0.0100										
Bis(2-chloroet	lhyl)ether		ND	0.0100										
Bis(2-chlorois	opropyl)ether		ND	0.0100										
Bis(2-ethylhe)	(yl)phthalate		ND	0.0100										
4-Bromophen	yl phenyl ether		ND	0.0100										
Butyl benzyl p	hthalate		ND	0.0100										
4-Chloro-3-me	ethylphenol		ND	0.0100	,									
2-Chloronaph	thalene		ND	0.0100		-								
2-Chlorophen	ol		. ND	0.0100									•	
4-Chlorophen	yl phenyl ether		ND	0.0100										
Chrysene			ND	0.0100						•	•			
o-Cresol		•	ND	0.0100										
m,p-Cresol			ND	0.0100										
Dibenzo(a,h)a	inthracene		ND	0.0100										
Di-n-butyl phth	nalate		ND	0.0100										
,2-Dichlorobe	enzene `		ND	0.0100										
,3-Dichlorobe	enzene		ND	0.0100										
,4-Dichlorobe	enzene		ND	0.0100						•				
3,3°-Dichlorob	enzidine		ND	0.0100										
2,4-Dichloropt	nenol		ND	0.0100										
Diethyl phthala			ND	0.0100						•				

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Client:

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VPDES PERMIT APPLICATION

Test Code:

Sample ID:	MB-42442	Samp Type:	MBLK		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	e:	<b>4/9/2013</b> Ru	nNo:	301112	
Client ID:	PBW	Batch ID:	42442		TestNo:	E625	SW351	0	Analysis	Date:	4/9/2013 Se	qNo:	4455000	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Dimethyl phtha	alate		ND	0.0100		•			· ·					
2,4-Dimethylph	henol		ND	0.0100										
4,6-Dinitro-2-m	nethylphenol		ND	0.0100										
2,4-Dinitropher	nol		ND	0.0100										
2,4-Dinitrotolue	ene		ND	0.0100										
2,6-Dinitrotolue	ene	•	ND .	0.0100										
Di-n-octyl phth	alate		ND	0.0100										
1,2-Diphenylhy	ydrazine		ND	0.0100										
Fluoranthene			ND	0.0100										
Fluorene		<i>.</i>	ND .	0.0100										
Hexachlorober	nzene		ND	0.0100					•		•			
Hexachlorobut	ladiene		ND	0.0100										
Hexachlorocyc	lopentadiene	•	ND	0.0100										
Hexachloroeth	ane		ND	0.0100									•	
Indeno(1,2,3-c	d)pyrene	•	ND	0.0100										
Isophorone			ND	0.0100						•				
Naphthalene			ND	0.0100										
Nitrobenzene			ND	0.0100										
2-Nitrophenol			ND	0.0100										
4-Nitrophenol			ND	0.0100										
N-Nitrosodimet	thylamine		ND .	0.0100										
N-Nitrosodiphe	enylamine		, ND	0.0100									•	
N-Nitrosodi-n-p	propylamine		ND	0.0100										
Pentachlorophe	enol		ND	0.0100										
Phenanthrene			ND	0.0100										
Phenol			ND	0.0100							,			
Pyrene			ND	0.0100										
1,2,4-Trichlorot	benzene		ND	0.0100										
Surr: 2-Fluor	rophenol	0	.0229		0.0500			45.7	32.9	110				
Surr: Phenal	•		.0175		0.0500			35.0	25.8	110				

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Test Code:

Sample ID:	MB-42442	Samp Type:	MBLK		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	e:	<b>4/9/2013</b> Ru	nNo:	301112	•
Client ID:	PBW	Batch ID:	42442		TestNo:	E625	SW351	0	Analysis	Date:	<b>4/9/2013</b> Se	qNo:	4455000	
Analyte	·		Result	PQL	SPK value	SPK Ref Val	] 9	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6	-Tribromophenol		0.0365		0.0500			73.1	63.8	110				
Surr: Nitrol	benzene-d5		0.0423		0.0500			84.7	61.8	110				
Surr: 2-Flu	orobiphenyl		0.0346		0.0500			69.2	58.6	110				
Surr: 4-Tei	rphenyl-d14		0.0370		0.0500			73.9	55.1	110			·	
Sample ID:	LCS-42442	Samp Type:	LCS		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	<b>e</b> :	<b>4/9/2013</b> Rui	nNo:	301112	
Client ID:	LCSW	Batch ID:	42442		TestNo:	E625	SW3510	0	Analysis	Date:	4/9/2013 Sec	ηNo:	4455001	
Analyte			Result	PQL	SPK value	SPK Ref Val	9	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthen	e		0.0352	0.0100	0.0500	0		70.4	50	143				
Acenaphthyle	ene		0.0379	0.0100	0.0500	0	l	75.8	36	145				
Anthracene			0.0360	0.0100	0.0500	0	I	72.0	31	132				
Benzo(a)anth	racene		0.0359	0.0100	0.0500	0	ı	71.7	33	141				
Benzo(a)pyre	ene		0.0342	0.0100	0.0500	0	ı	68.4	13	166				
Benzo(b)fluor	anthene		0.0345	0.0100	0.0500	0		69.0	22	157				
Benza(g,h,i)p	erylene		0.0333	0.0100	0.0500	. 0		66.5	0	214		-		
Benzo(k)fluor	anthene		0.0389	0.0100	0.0500	0		77.7	10	158				
Bis(2-chloroe	thoxy)methane		0.0370	0.0100	0.0500	0		74.0	28	176				
Bis(2-chloroe	thyl)ether		0.0373	0.0100	0.0500	0		74.7	12	154				
•	opropyl)ether	1	0.0391	0.0100	0.0500	0		78.3	33	164				
Bis(2-ethylhe:	xyl)phthalate	•	0.0398	0.0100	0.0500	0		79.7	7	157				
4-Bromophen	yl phenyl ether		0.0345	0.0100	0.0500	. 0		69.0	51	126	•			•
Butyl benzyl p	hthalate	•	0.0419	0.0100	0.0500	0		83.8	0	148				
4-Chloro-3-m	ethylphenol	. (	0.0368	0.0100	0.0500	0		73.7	18	151				
2-Chloronaph	thalene	(	0.0336	0.0100	0.0500	0		67.2	59	119				
2-Chlorophen		t	0.0357	0.0100	0.0500	0		71.3	20	137				
4-Chlorophen	yl phenyl ether	t	0.0350	0.0100	0.0500	0		70.1	27	157				
Chrysene		1	0.0356	0.0100	0.0500	. 0		71.2	18	164				
Dibenzo(a,h)a	anthracene	· (	0.0279	0.0100	0.0500	0		55.8	0	239				
Di-n-butyl phti	halate		0.0403	0.0100	0.0500	0		80.6	0	121				
1,2-Dichlorob	enzene	(	0.0313	0.0100	0.0500	0		62.6	32	130				



Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID: LCS-42442	Samp Type:	LCS	-	Test Code:	625_SUP_L	Units:	mg/L	Prep Date	e:	<b>4/9/2013</b> Ru	nNo:	301112	
Client ID: <b>LCSW</b>	Batch ID:	42442	-	FestNo:	E625	SW3510	)	Analysis	Date:	4/9/2013 Sec	no:	4455001	
Analyte		Result	PQL	SPK value	SPK Ref Val	9	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
,3-Dichlorobenzene		0.0299	0.0100	0.0500	0		59.8	0	170				
,4-Dichlorobenzene	C	0.0303	0.0100	0.0500	0		60.7	. 19	121				
3,3'-Dichlorobenzidine	C	0.0325	0.0100	0.0500	0		65.1	0	227				
2,4-Dichlorophenol	C	0.0366	0.0100	0.0500	0		73.2	36	138				
Diethyl phthalate	C	0.0391	0.0100	0.0500	0		78.1	0	103				
.4-Dimethylphenol	C	0.0357	0.0100	0.0500	0		71.4	31	129				
l,6-Dinitro-2-methylphenol	C	0.0324	0.0100	0.0500	0		64.8	0	191				
2,4-Dinitrophenol	C	0.0290	0.0100	0.0500	0		58.0	0	219				
2,4-Dinitrotoluene	C	0.0401	0.0100	0.0500	0		80.1	33	132				
2,6-Dinitrotoluene	C	0.0371	0.0100	0.0500	0		74.1	51	146				
Di-n-octyl phthalate	C	0.0422	0.0100	0.0500	0		84.5	1	147				
luoranthene	O	0.0387	0.0100	0.0500	0		77.3	29	137				
luorene	C	0.0361	0.0100	0.0500	0		-72.3	59	122				
lexachlorobenzene	O	0.0342	0.0100	0.0500	0		68.4	0	152		•		
lexachlorobutadiene	O	0.0266	0.0100	0.0500	0		53.2	23	115				
lexachloroethane	C	0.0286	0.0100	0.0500	0		57.2	38	105				
ndeno(1,2,3-cd)pyrene	O	0.0322	0.0100	0.0500	0		64.3	0	162				
sophorone	C	0.0377 :	0.0100	0.0500	. 0		75.3	21	209				
laphthalene	C	0.0322	0.0100	0.0500	0		64.3	25	134				
litrobenzene	0	0.0369	0.0100	0.0500	0		73.9	34	172				
-Nitrophenol	· 0	0.0385	0.0100	0.0500	0		76.9	23	186.				
-Nitrophenol		ND	0.0100	0.0500	0		0	. 0	137				
I-Nitrosodi-n-propylamine	0	0.0370	0.0100	0.0500	0		73.9	Ō	209				
entachlorophenol	0	.0347	0.0100	0.0500	0		69.3	5	189				
Phenanthrene	0	.0360	0.0100	0.0500	0		71.9	5	. 120				
henol	. 0	.0169	0.0100	0.0500	0		33.9	4	87				
yrene	0	.0371	0.0100	0.0500	0		74.2	52	116				
,2,4-Trichtorobenzene	0	.0308	0.0100	0.0500	. 0		61.6	43	142				
Surr: 2-Fluorophenol	0	.0224		0.0500			44.7	32.9	110				
Surr: Phenol-d5	0	.0171		0.0500			34.2	25.8	110				



Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

Sample ID:	LCS-42442	Samp Type:	LCS	٦	Test Code:	625_SUP_L	Units: mg/L	Prep Dat	te:	<b>4/9/2013</b> Ru	лNo:	301112	
Client ID:	LCSW	Batch ID:	42442	7	TestNo:	E625	SW3510	Analysis	Date:	4/9/2013 Se	qNo:	4455001	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: 2,4,6	-Tribromophenol		0.0389		0.0500		77.9	63.8	110				
Surr: Nitrol	benzene-d5		0.0428		0.0500	•	85.5	61.8	110				
Surr: 2-Flu	orobiphenyl		0.0358		0.0500		71.5	58.6	110				
Surr: 4-Ter	phenyl-d14		0.0363		0.0500		72.6	. 55.1	110				

w.

1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

CN\_335.4

					<del> </del>					•				· · ·
Sample ID:	MB-42379	Samp Type:	MBLK	٦	Test Code:	CN_335.4	Units:	mg/L	Prep Dat	e:	4/5/2013 Ru	nNo:	300969	
Client ID:	PBW	Batch ID:	42379	1	TestNo:	E335.4			Analysis	Date:	<b>4/8/2013</b> Se	qNo:	4452102	
Analyte			Result	PQL	SPK value	SPK Ref Val	ا '	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tot	tal		ND	0.020										

West.

1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

NH3\_N\_350.1

							_				,			
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	300886	
Client ID:	LCSW	Batch ID:	R300886		TestNo:	E350.1			Analysis	Date:	<b>4/5/2013</b> Se	qNo:	4450500	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		1.02	0.10	1.00	0		102	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	пNо:	300886	
Client ID:	LCSW	Batch ID:	R300886		TestNo:	E350.1			Analysis	Date:	<b>4/5/2013</b> Se	qNo:	4450589	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		1.05	0.10	1.00	0		105	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	300886	
Client ID:	LCSW	Batch ID:	R300886		TestNo:	E350.1			Analysis	Date:	<b>4/5/2013</b> Se	qNo:	4450616	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		1.06	0.10	1.00	0		106	89.9	110.1				
Sample ID:	LC\$	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	300886	
Client ID:	LCSW	Batch ID:	R300886		TestNo:	E350.1			Analysis	Date:	<b>4/5/2013</b> Se	qNo:	4450641	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		1.04	0.10	1.00	0		104	89.9	110.1				



Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

PHENOLICS\_L

Sample ID: Client ID:	MB-R301139 PBW	Samp Type: Batch ID:	MBLK R301139		Test Code: TestNo:	PHENOLICS _L E420.1	Units:	mg/L	Prep Dat Analysis		Rui 4/10/2013 Sed	nNo: qNo:	301139 <b>44</b> 55546	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			ND	0.010				-	-					
Sample ID:	LCS-R301139	Samp Type:	LCS		Test Code:	PHENOLICS	Units:	mg/L	Prep Dat	ie:	Ru	nNo:	301139	
Client ID:	LCSW	Batch ID:	R301139	-	TestNo:	E420.1			Analysis	Date:	4/10/2013 Sec	No:	4455547	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
				0.010				102	89.9	110.1				

W.

1304588

Date Reported: 4/11/2013

Client:

WESTERN VA WATER WWTP

Project:

VPDES PERMIT APPLICATION

Test Code:

SOLIDS\_TDS

Sample ID:	MB-R301011	Samp Type:		•	Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat			nNo:	301011	
Client ID:	PBW	Batch ID:	R301011		TestNo:	SM2540 C			Analysis	Date:	4/6/2013 Se	įΝο:	4453140	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Dissolv	ed Solids	·	ND	10										
Sample ID:	LCS-R301011	Samp Type:	LCS		Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat	e:	Rui	nNo:	301011	
Client ID:	LCSW	Batch ID:	R301011	-	TestNo:	SM2540 C			Analysis	Date:	4/6/2013 Sec	No:	4453141	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Dissolv	ed Solids		249	10	250	. 0		100	89.9	110.1			•	



-Improving the environment, one client at a time...

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500

Website: www.reiclabs.com

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276

101 17th Street Ashland, KY 41101 TEL: 606.393.5027

1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.777.1276

16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Tuesday, June 11, 2013

Ms. Janis Richardson WESTERN VA WATER WWTP 1502 BROWNLEE AV SE ROANOKE, VA 24014

TEL:

(540) 853-1517

FAX:

(540) 853-1307

RE: MAY SAMPLING

Work Order #: 1305V06

Dear Ms. Janis Richardson:

REI Consultants, Inc. received 6 sample(s) on 5/29/2013 for the analyses presented in the following report. Sincerely,

Joy Castle

Project Manager



#### **REI Consultants. Inc. - Case Narrative**

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

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MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/yolume),

#### QUALIFIERS:

- X: Reported value exceeds required MCL
- B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
- E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.
- H: Holding time for preparation or analysis has been exceeded.
- J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
- S: % REC (% recovery) exceeds control limits

#### CERTIFICATIONS

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150

Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID:

1305V06-01A

Client Sample ID:

001 - GRAB 1

**Collection Date:** 

5/29/2013 9:20:00 AM

Date Received:

d: 5

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL MCL	Qual Units	PrepDate	Date Analyzed
Field Parameters		Method: FLD			Analyst:
FieldSampler	CY	NA			
pH, SM4500H+ B	6.73	NA	S.U.		
Temperature, SM 2550B	21.0	NA	deg C		
OIL and GREASE		Method: EPA	1664A		Analyst: MC
Oil & Grease	ND	5.0 NA	mg/L		6/7/2013 10:00 AM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

MAY SAMPLING

Project: Lab ID:

1305V06-02A

Client Sample ID:

001 - GRAB 2

**Collection Date:** 

5/29/2013 9:35:00 AM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL	MCL Qual	Units	PrepDate	Date Analyzed
Field Parameters		Method	l: FLD			Analyst:
FieldSampler	CY		NA			
pH, SM4500H+ B	7.01		NA	S.U.		
OIL and GREASE		Method	l: EPA1664	4		Analyst: MC
Oil & Grease	ND	5.0	NA	mg/L		6/6/2013 9:30 AM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID:

1305V06-03A

Client Sample ID:

001 - GRAB 3

**Collection Date:** 

5/29/2013 9:50:00 AM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

*						
Analysis	Result	PQL	MCL Qual	Units	PrepDate	Date Analyzed
Field Parameters	· ··	Metho	od: FLD			Analyst:
FieldSampler	CY		NA		-	
pH, SM4500H+ B	7.07		NA	S.U.		
OIL and GREASE		Metho	od: EPA1664/	4		Analyst: MC
Oil & Grease	ND	5.0	NA	mg/L		6/7/2013 10:00 AM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID:

1305V06-04A

Client Sample ID:

001 - GRAB 4

**Collection Date:** 

5/29/2013 10:05:00 AM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL	MCL Qua	I Units	PrepDate	Date Analyzed
Field Parameters		Metho	od: FLD			Analyst:
FieldSampler	CY		NA			
pH, SM4500H+ B	7.10		NA	S.U.		
ACROLEIN BY E624		Metho	od: E624			Analyst: RB
Acrolein	ND	10	NA	μg/L		5/31/2013 12:59 AM
VOLATILE ORGANIC COMPOUNDS		Metho	od: E624			Analyst: RB
Benzene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Bromodichloromethane	14.3	1.0	NA	μg/L		5/31/2013 12:59 AM
Bromoform	ND	1.0	NA	μ <b>g/L</b>		5/31/2013 12:59 AM
Bromomethane	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Carbon tetrachloride	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Chlorobenzene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Chloroethane	ND	1.0	NA	μ <u>α</u> /L		5/31/2013 12:59 AM
Chloroform	17.0	10	NA	μg/L		6/3/2013 9:56 PM
Chloromethane	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Dibromochloromethane	2.7	1.0	NA	μg/L		5/31/2013 12:59 AM
1,1-Dichloroethene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
trans-1,2-Dichloroethene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
1,2-Dichloropropane	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
cis-1,3-Dichloropropene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
trans-1,3-Dichloropropene	ND	1.0	NA	µg/L		5/31/2013 12:59 AM
Ethylbenzene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Methylene chloride	ND	1.0	NA	µg/L		5/31/2013 12:59 AM
1,1,2,2-Tetrachloroethane	ND	1.0	NA	µg/L		5/31/2013 12:59 AM
Tetrachioroethene	. ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Toluene	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
1,1,1-Trichloroethane	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
1,1,2-Trichloroethane	ND	1.0	NA	μg/L		5/31/2013 12:59 AM
Trichloroethene	ND	1.0	NA	ug/L		5/31/2013 12:59 AM
Trichlorofluoromethane	ND	1.0	NA	µg/L		5/31/2013 12:59 AM
Vinyl chloride	ND	1.0	NA	µg/L		5/31/2013 12:59 AM
Surr: 1,2-Dichloroethane-d4	124	73.2-133	NA	%REC		5/31/2013 12:59 AM
Surr: Toluene-d8	81.1	71-132	NA	%REC		5/31/2013 12:59 AM
Surr: 4-Bromofluorobenzene	99.4	74.2-129	NA	%REC		5/31/2013 12:59 AM
VOLATILE ORGANIC COMPOUNDS-624		Metho	od: E624			Analyst: RB
2-Chloroethyl vinyl ether	ND	5.0	NA	μg/L		5/31/2013 12:59 AM
Acrylonitrile	ND	10	NA	µg/L		5/31/2013 12:59 AM
Surr: 1,2-Dichloroethane-d4		73.2-133	NA	%REC		5/31/2013 12:59 AM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID:

1305V06-04A

Client Sample ID:

001 - GRAB 4

**Collection Date:** 

5/29/2013 10:05:00 AM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL	MCL Qua	al Units	PrepDate Date An	alyzed
Surr: Toluene-d8	81.1	71-132	NA 🛰	%REC	5/31/2013 1	12:59 AM
Surr: 4-Bromofluorobenzene	99.4 7	4.2-129	NA	%REC	5/31/2013 1	12:59 AM
OIL and GREASE		Metho	od: EPA166	64A	Analy	st: MC
Oil & Grease	ND	5.0	NA	mg/L	6/7/2013 1	MA 00:01
PHENOLICS		Metho	d: E420.1		Analy	/st: BA
Phenolics	ND.	0.010	NA	mg/L	5/31/2013	1:00 PM
Cyanide		Metho	d: E335.4		Analy	yst: AL
Cyanide, Total	ND	0.020	NA	mg/L	5/31/2013 8:35 AM 5/31/2013 1	1:25 AM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID:

1305V06-05A

Client Sample ID:

001 - COMP

**Collection Date:** 

5/29/2013 2:00:00 PM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL	MCL	Qual	Units	PrepDate	Date Analyzed
Field Parameters		Metho	d: FL	D			Analyst:
FieldSampler	CY		NA				
HARDNESS		Metho	d: SM	2340 B	E	200.2	Analyst: LF
Hardness, Total (As CaCO3)	188	1.00	NA		mg/L	5/31/2013 11:00 AM	5/31/2013 5:26 PM
SEMIVOLATILE ORGANIC COMPOUNDS		Metho	d: E6	25	SI	N3510	Analyst: JD
Acenaphthene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Acenaphthylene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Anthracene	, ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzidine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzo(a)anthracene	ND	0.0102	·NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzo(a)pyrene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzo(b)fluoranthene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzo(g,h,i)perylene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Benzo(k)fluoranthene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Bis(2-chloroethoxy)methane	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Bis(2-chloroethyl)ether	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Bis(2-chloroisopropyl)ether	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Bis(2-ethylhexyl)phthalate	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
4-Bromophenyl phenyl ether	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Butyl benzyl phthalate	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
4-Chloro-3-methylphenof	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2-Chloronaphthalene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2-Chlorophenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
4-Chlorophenyl phenyl ether	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Chrysene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
o-Cresol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
m,p-Cresol	ND	0.0204	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Dibenzo(a,h)anthracene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Di-n-butyl phthalate	ND	0.0102	NA	-	mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
1,2-Dichlorobenzene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
1,3-Dichlorobenzene	ND	0.0102	NA	•	mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
1,4-Dichlorobenzene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
3,3'-Dichlorobenzidine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2,4-Dichlorophenol	ND	0.0102	NΑ		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Diethyl phthafate	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Dimethyl phthalate	ND	0.0102	NA		mg/L		6/6/2013 12:37 AM
2,4-Dimethylphenol	ND	0.0102	NA		mg/L		6/6/2013 12:37 AM
4,6-Dinitro-2-methylphenol	ND	0.0102	NA		mg/L		6/6/2013 12:37 AM
2,4-Dinitrophenol	ND	0.0102	NΑ		mg/L	6/3/2013 10:43 AM	6/7/2013 7:02 PM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Lab ID: Client Sample ID: 1305V06-05A 001 - COMP **Collection Date:** 

5/29/2013 2:00:00 PM

Date Received:

5/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	PQL	MCL	Qual	Units	PrepDate	Date Analyzed
2,4-Dinitrotoluene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2,6-Dinitrotoluene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Di-n-octyl phthalate	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
1,2-Diphenylhydrazine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Fluoranthene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Fluorene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Hexachlorobenzene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Hexachlorobutadiene	ND	0.0102	NΑ		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Hexachlorocyclopentadiene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Hexachloroethane	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Indeno(1,2,3-cd)pyrene	ND	0.0102	NĄ		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Isophorone	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Naphthalene	. ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Nitrobenzene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2-Nitrophenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
4-Nitrophenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
N-Nitrosodimethylamine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
N-Nitrosodiphenylamine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
N-Nitrosodi-n-propylamine	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Pentachlorophenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Phenanthrene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Phenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Pyrene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
1,2,4-Trichlorobenzene	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
2,4,6-Trichlorophenol	ND	0.0102	NA		mg/L	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: 2-Fluorophenol	47.3	25.9-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: Phenol-d5	35.9	8.2-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: 2,4,6-Tribromophenol	95.7	61.7-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: Nitrobenzene-d5	90.1	62.2-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: 2-Fluorobiphenyl	81.6	54.6-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
Surr: 4-Terphenyl-d14	83.0	10.7-110	NA		%REC	6/3/2013 10:43 AM	6/6/2013 12:37 AM
ANIONS by ION CHROMATOGRAPHY		Metho	d: SM	4110B		-	Analyst: CF
Nitrogen, Nitrate-Nitrite	12.1	1.00	NA		mg/L		5/30/2013 9:15 PM
AMMONIA NITROGEN		Metho	d: EP/	<b>4350.1</b>			Analyst: AL
Nitrogen, Ammonia (As N)	ND	0.10	NA		mg/L	·	5/30/2013 3:28 PM
TOTAL DISSOLVED SOLIDS		Metho	d: SM	2540 C	:		Analyst: SF
Total Dissolved Solids	349	10	NA		mg/L		5/31/2013 2:56 PM

WO#: 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project: Lab ID:

MAY SAMPLING 1305V06-06A

Client Sample ID:

TRIP BLANK

Collection Date:

5/29/2013 12:00:00 AM

Date Received:

5/29/2013

Matrix:

Trip Blank

Site ID:

Analysis	Resul	t PQL	MCL C	lual Units	PrepDate	Date Analyzed
ACROLEIN BY E624		Meth	od: E624			Analyst: RB
Acrolein	ND	10	NA	μg/L		5/31/2013 1:34 AM
VOLATILE ORGANIC COMPOUNDS		Metho	od: E624			Analyst: RB
Benzene	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Bromodichloromethane	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
Bromoform	ND	1.0	·NA	μg/L		5/31/2013 1:34 AM
Bromomethane	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
Carbon tetrachloride	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Chlorobenzene	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
Chloroethane	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
Chloroform	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Chloromethane	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Dibromochloromethane	ND	1.0	NA	μg/L	-	5/31/2013 1:34 AM
1,1-Dichloroethene	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
trans-1,2-Dichloroethene	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
1,2-Dichloropropane	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
cis-1,3-Dichloropropene	ND	1.0	NA	μ <b>g</b> /L		5/31/2013 1:34 AM
trans-1,3-Dichloropropene	ND	1.0	NA	μ <u>q</u> /L		5/31/2013 1:34 AM
Ethylbenzene	ND	1.0	NA	μq/L		5/31/2013 1:34 AM
Methylene chloride	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
1,1,2,2-Tetrachloroethane	· ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Tetrachloroethene	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Toluene	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
1,1,1-Trichloroethane	ND	1.0	NA	µq/L		5/31/2013 1:34 AM
1,1,2-Trichloroethane	- ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Trichloroethene	ND	1.0	NA	µg/L		5/31/2013 1:34 AM
Trichlorofluoromethane	ND	1.0	NA	μg/L		5/31/2013 1:34 AM
Vinyl chloride	ND	1.0	NA	ug/L	,	5/31/2013 1:34 AM
Surr: 1,2-Dichloroethane-d4	111	73.2-133	NA	%REC		5/31/2013 1:34 AM
Surr: Toluene-d8	90.6	71-132	NA	%REC		5/31/2013 1:34 AM
Surr: 4-Bromofluorobenzene	144	74.2-129	NA	S %REC		5/31/2013 1:34 AM
VOLATILE ORGANIC COMPOUNDS-624		Metho	od: E624			Analyst: RB
2-Chloroethyl vinyl ether	ND	5.0	NA	μg/L		5/31/2013 1:34 AM
Acrylonitrile	ND	10	NA	μg/L		5/31/2013 1:34 AM
Surr: 1,2-Dichloroethane-d4	111	73.2-133	NA	%REC		5/31/2013 1:34 AM
Surr: Toluene-d8		71-132	NA	%REC		5/31/2013 1:34 AM
Surr: 4-Bromofluorobenzene		74.2-129		S %REC		5/31/2013 1:34 AM



Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

1664\_HEM

Sample ID:	LCS-R304904	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	le:	Ru	mNo:	304904	
Client ID:	LCSW	Batch ID:	R304904		TestNo:	EPA1664A			Analysis	Date:	<b>6/6/2013</b> Se	qNo:	4536742	
Analyte			Result	PQL	SPK value	SPK Ref Val	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oif & Grease			36.9	5.0	40.0	C	1	92.2	77.9	114.1				
Sample ID:	LCSD-R304904	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	ie:	· Ru	ınNo:	304904	
Client ID:	LCSS02	Batch ID:	R304904		TestNo:	EPA1664A			Analysis	Date:	6/6/2013 Se	qNo:	4536743	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			34.1	5.0	40.0	0	)	85.2	77.9	114.1	36.9	7.9	20	_
Sample ID:	MB-R304904	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	ınNo:	304904	
Client ID:	PBW	Batch ID:	R304904		TestNo:	EPA1664A			Analysis	Date:	<b>6/6/2013</b> Se	qNo:	4536744	
Analyte			Result	PQL.	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			ND	5.0										
Sample ID:	LCS-R304968	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304968	
Client ID:	LCSW	Batch ID:	R304968	•	TestNo:	EPA1664A			Analysis	Date:	6/7/2013 Se	qNo:	4537893	
Analyte			Result	PQL.	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			41.9	5.0	40.0	0	ı	105	77.9	114.1	· · ·			
Sample ID:	LCSD-R304968	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304968	
Client ID:	LCSS02	Batch ID:	R304968		TestNo:	EPA1664A			Analysis	Date:	6/7/2013 Se	qNo:	4537894	
Analyte		[	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			38.8	5.0	40.0	0		97.0	77.9	114.1	41.9	7.7	20	
Sample ID:	MB-R304968	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304968	
Client ID:	PBW	Batch ID:	R304968		TestNo:	EPA1664A			Analysis	Date:	<b>6/7/2013</b> Se	qNo:	4537895	
Analyte		1	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			ND	5.0										

w 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

Sample ID: 8260/624 L	CS Samp Ty	pe: <b>LCS</b>	-	Test Code:	624_L	Units: µg/L	Prep Dat	te:	Ru	inNo:	304528	
Client ID: LCSW	Batch ID:	R304528	-	TestNo:	E624		Analysis	Date:	<b>5/30/2013</b> Se	qNo:	4528438	
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene		11.5	1.0	10	0	115	77	150				
Bromodichloromethane		10.7	1.0	10	0	. 107	17	157				
Bromoform		11,4	1.0	10	0	114	22	157				
Bromomethane		8.2	1.0	10	0	81.5	0	242			-	
Carbon tetrachloride		12.7	1.0	10	0	127	59	127				
Chlorobenzene		11.2	1.0	10	0	112	91	151				
Chloroethane		8.9	1.0	10	0	88.6	0	258				
Chloroform		11.6	1.0	10	0	116	50	153				
Chloromethane		7.4	1.0	10	0	73.6	0	279				
Dibromochloromethane		11.3	1.0	10	. 0	113	47	154				
1,1-Dichloroethene		9.7	1.0	10	oʻ	96.6	0	237		•		
trans-1,2-Dichloroethene		11.5	1.0	10	. 0	115	52	158				
1,2-Dichloropropane		10.8	1.0	10	0	108	0	210				
cis-1,3-Dichloropropene		8.5	1.0	10	0	84.6	. 0	227		*		
trans-1,3-Dichloropropene		10.7	1.0	10	0	107	17	183				
Ethylbenzene		10.6	1.0	10	0	106	87	159				
Methylene chloride		9.5	1.0	10	0	94.7	0	286				
.1,1,2,2-Tetrachloroethane		9.9	1.0	10	0	98.7	47	175	,			
Tetrachloroethene		11.6	1.0	10	0	116	79	145				
Toluene		10.6	1.0	10	0	106	79	145				
1,1,1-Trichloroethane		12.0	1.0	10	0	120	65	162				
1,1,2-Trichloroethane		10.3	1.0	- 10	0	103	63	161				
Trichloroethene		12.0	1.0	10	0	120	75	178				
Trichlorofluoromethane		9.3	1.0	10	0	93.4	27	179				
Vinyl chloride		7.9	1.0	10	0	79.0	0	259				
Surr: Dibromofluorometh	ane	11.1		10		111	65.5	133	-			
Surr: 1,2-Dichloroethane	-d4	. 10.3		10		103	74	140				
Surr: Toluene-d8		9.0		10	•	89.9	71.1	126	•			
Surr: 4-Bromofluorobenz	ene	10.4		10		104	75.9	129				•

1305V

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_L	Units:	µg/∟	Prep Dat	e:	Ru	nNo:	304528	
Client ID:	PBW	Batch ID:	R304528		TestNo:	E624			Analysis	Date:	5/30/2013 Se	qNo:	4528439	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			ND	1.0										
Bromodichlor	omethane		ND	1.0										
Bromoform			ND	1.0										
Bromomethai	ne		ND	1.0										
Carbon tetrac	chloride		ND	1.0										
Chlorobenzer	ne		ND	1.0										
Chloroethane	•		ND	1.0						•				
Chloroform			ND	1.0										
Chloromethar	ne		ND	1.0										
Dibromochlor	omethane		ND	1.0										
1,1-Dichloroe	thene		ND	1.0						,				
rans-1,2-Dich	nloroethene		ND	1.0										
1,2-Dichlorop	ropane		ND	1.0										
cis-1,3-Dichlo	ropropene		ND	1.0						•				
rans-1,3-Dict	nloropropene		ND	1.0										
Ethylbenzene	•		ND	1.0										
Methylene chi	loride		ND	1.0										
1,1,2,2-Tetrac	chloroethane		ND .	1.0										
Tetrachloroetl	hene		ND	1.0		-		•						
Toluene		•	ND	1.0										
1,1,1-Trichlore	oethane		ND	1.0										
1,1,2-Trichlor	oethane		ND	1.0									•	
Frichloroether	пе		ND	1.0		•								
Frichlorofluoro	omethane		ND	1.0										
/inyl chloride			ND	1.0										
Surr: Dibro	mofluoromethane		10.6		10			106	70.8	128				
Surr: 1,2-Di	ichloroethane-d4		10.2		10			102	73.2	133				
Surr: Tolue	ne-d8		12.2		10			122	71	132				
Surr: 4-Broa	mofluorobenzene		9.1		10			90.6	74.2	129				

WG... 1305

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

**Test Code:** 

Sample ID: 8	260/624 LCS	Samp Type:	LCS	1	est Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	304528	
Client ID: L	.csw	Batch ID:	R304528	. 1	estNo:	E624			Analysis	Date:	5/31/2013 Se	qNo:	4528459	
Analyte			Result	PQL	SPK value	SPK Ref Va	al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			23.0	1.0	20.0		0	115	77	150				
Bromodichlorom	ethane		25.2	1.0	20.0	(	0	126	17	157				Е
Bromoform			23.3	1.0	20.0	(	O	116	22	157				
Bromomethane		,	16.8	1.0	20.0	+	0	83.9	0	242				
Carbon tetrachlo	oride ·		24.0	1.0	20.0	(	0	120	59	127				
Chlorobenzéne			22.7	1.0	20.0	(	0	114	91	151				
Chloroethane			17.2	1.0	20.0	(	0	86.0	0	258				
Chloroform			22.6	1.0	20.0	(	0	113	50	153				
Chloromethane			15.1	1.0	20.0	. (	0	75.5	0	279			•	
Dibromochlorom	ethane •		22.4	1.0	20.0	(	0	112	47	154				
1,1-Dichloroethe	ene		20.3	1.0	20.0	(	0	101	0	237				
trans-1,2-Dichlor	roethene		22.5	1.0	20.0	(	0	113	52	158				
1,2-Dichloroprop	ane		22.5	1.0	20.0	ı	0	113	0	210				
cis-1,3-Dichlorop	propene		17.7	1.0	20.0	(	D	88.3	0	227	-			
trans-1,3-Dichlor	opropene		21.6	1.0	20.0	(	D	108	17	183				
Ethylbenzene			21.3	1.0	20.0	+	D	106	. 87	159			•	
Methylene chlori	de		19.0	1.0	20.0	(	0	95.0	0	286				
1,1,2,2-Tetrachic	proethane		17.5	1.0	20.0	(	D	87.6	47	175				
Tetrachloroether	ne .		22.6	1.0	20.0	(	D	113	79	145				
Toluene	,		21.6	·1.0	20.0	(	ם	108	79	145				
1,1,1-Trichloroet	hane		24.0	<b>1.0</b>	20.0	(	С	120	65	162				
1,1,2-Trichloroet	hane		20.9	1.0	20.0	(	5	105	63	161				
Trichloroethene			23.5	1.0	20.0	(	)	118	75	178				
Trichlorofluorome	ethane		17.5	1.0	20.0	(	כ	87.4	27	179				
Vinyl chloride			16.1	1.0	20.0	(	)	80.4	0	259				
Surr: Dibromo	fluoromethane	•	9.6	,	10			96.2	65.5	133				
Surr: 1,2-Dichl	loroethane-d4		9.9	•	10			98.7	74	140				
Surr: Toluene-	-d8		8.7		10			86.8	71.1	126				
Surr: 4-Bromo	fluorobenzene .		8.3		10			83.1	75.9	129				

W 1305V0

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

Sample ID:	8260/624 LCS	Samp Type:	LCS	, 7	Test Code:	624_L	Units:	µg/L	Prep Dat	te:	Ru	nNo:	304642	
Client ID:	LCSW	Batch ID:	R304642	٦	TestNo:	E624			Analysis	Date:	6/3/2013 Se	qNo:	4530961	
Analyte		ı	Result	PQL	SPK value	SPK Ref Va	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloroform			11.3	1.0	10	(	)	113	50	153				
Surr: Dibro	omofluoromethane		12.0	•	10			120	65.5	133	4			
Surr: 1,2-E	Dichloroethane-d4		11.0		10			110	74	140				
Surr: Tolue	ene-d8		9.7		10			96.9	71.1	126				
Surr: 4-Bro	omofluorobenzene		9.9		10			98.9	75.9	129				
Sample ID:	BLANK	Samp Type:	MBLK	1	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	304642	
Client ID:	PBW	Batch ID:	R304642	7	TestNo:	E624			Analysis	Date:	<b>6/3/2013</b> Se	qNo:	4530962	
Analyte		F	Result	PQL	SPK value	SPK Ref Va	<u> </u>	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloroform			ND	1.0										
Surr: Dibro	omofluoromethane		11.3		10			113	70.8	128				
Surr: 1,2-E	Dichloroethane-d4		10.1		1.0			101	73.2	133				
Surr: Tolue	ene-d8		9.8		10			97.5	71	. 132				
Surr: 4-Bro	omofluorobenzene		9.1		10			90.8	74.2	129				
Sample ID:	8260/624 LCS	Samp Type:	LCS	T	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo;	304642	
Client ID:	LCSW	Batch ID:	R304642	7	ΓestNo:	E624			Analysis	Date:	6/4/2013 Se	qNo:	4532110	
Analyte		F	Result	PQL	SPK value	SPK Ref Va	_	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloroform			10.8	1.0	10	C	1	108	50	153	-			
Surr: Dibro	mofluoromethane		12.1		10			121	65.5	133				
Surr: 1,2-D	ichloroethane-d4		10.8	•	10			108	74	140				
Surr: Tolue	ene-d8		10.1		. 10			101	71,1	126				
Surr: 4-Bro	mofluorobenzene		10.1		10			101	75.9	129	•			

W 1305

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

CN\_335.4

	<del></del>													
Sample ID:	MB-43683	Samp Type:	MBLK		Test Code:	CN_335.4	Units:	mg/L	Prep Dat	e:	<b>5/31/2013</b> Ru	nNo:	304531	
Client ID:	PBW	Batch ID:	43683		TestNo:	E335.4			Analysis	Date:	5/31/2013 Se	qNo:	4528498	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tota	al		ND	0.020										



Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

NH3\_N\_350.1

						^								
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304478	
Client ID:	LCSW	Batch ID:	R304478		TestNo:	EPA350.1			Analysis	Date:	<b>5/30/2013</b> Se	qNo:	4527589	
Analyte	•		Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		0.99	0.10	1.00	0		99.1	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304478	
Client ID:	LCSW	Batch ID:	R304478		TestNo:	EPA350.1			Analysis	Date:	<b>5/30/2013</b> Se	qNo:	4527651	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Am	monia (As N)		1.08	0.10	1.00	0	·	108	89.9	110.1				

W 1305

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

PHENOLICS\_L

Sample ID:	MB-R304538	Samp Type:	MBLK		Test Code:	PHENOLICS L	Units:	mg/L	Prep Dat	ie:	Ru	inNo:	304538	
Client ID:	PBW	Batch ID:	R304538		TestNo:	Ē420.1			Analysis	Date:	<b>5/31/2013</b> Se	qNo:	4528707	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			ND	0.010										,
Sample ID:	LCS-R304538	Samp Type:	LCS		Test Code:	PHENOLICS	Units:	mg/L	Prep Dat	e:	Rı	ın <b>N</b> a:	304538	
Client ID:	LCSW	Batch ID:	R304538		TestNo:	Ē420.1			Analysis	Date:	<b>5/31/2013</b> Se	qNo:	4528708	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			0.102	0.010	0.100	0		102	89.9	110.1				

W 1305V06

Date Reported: 6/11/2013

Client:

WESTERN VA WATER WWTP

Project:

MAY SAMPLING

Test Code:

SOLIDS\_TDS

Sample ID:	MB-R304574	Samp Type:	MBLK		Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304574	
Client ID:	PBW	Batch ID:	R304574		TestNo:	SM2540 C			Analysis	Date:	5/31/2013 Se	qNo:	4529452	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Dissolv	ed Solids		ND	10					_					
Sample ID:	LCS-R304574	Samp Type:	LCS	-	Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat	e:	Ru	nNo:	304574	
Client ID:	LCSW	Batch ID:	R304574	-	ΓestNo:	SM2540 C			Analysis	Date:	<b>5/31/2013</b> Sec	qNo:	4529453	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Takal Dianak	ed Solids		250	10	250	0		100	89.9	110.1				



# **CHAIN OF CUSTODY RECORD**

	REIC
Research Environmental &	lindustrial Consultants, Inc.

MAIN LABORATORY & CORPORATE HEADQUARTERS: P.O. Box 286 • 225 Industrial Park Rd, Beaver, WV 25813

800-999-0105 - 304-255-2500 - www.reiclabs.com

MID-OHIO VALLEY
Service Center
101 17th Street
Ashland, KY 41101
606-393-5027

SHENANDOAH Service Center

1557 Commerce Rd., Ste 201 3029-C Peters Creek Rd Varona, VA 24482 540-248-0183

ROANOKE Service Center Roanoke, VA 24019

540-777-1276

MORGANTOWN Service Center 16 Commerce Drive Westover, WV 26501 304-241-5861

TTO 624

	V8-0612	ONLY	CLIENT ID WE	S113	DATE	S	HEET
Client:	WVWA				PO #	·	
Contact Pe	JANIS RICH	ARDSON				353-1617	
Address	1502 BROWNLE	E AVE SE		City ROANOKE			
Billing Add	iress (if different)	QUOTE 17	706				*******
		City			State		
Site ID & S	rate <del>CO</del> L		Project (D <u>May</u>	sampling	Sampler Chris	lian Yates	

SAMPLI	E LOG	& ANAL	YSIS RI	EOUES1
A 71				

TURN	AROUND TIME		RUSH TU	•	
0	NORMAL	O 5 DAY	<b>◯</b> 3 DAY	O 2 DAY	O 1 DAY
*R	ash work needs no	ioz laboratory zone	nuai and will	iocur addition	al chames

		1664 OG
1030		CYANIDE
.   0		TOTAL PHENOLICS
9	2	
MET	į	P
4		7ТО 625
15		NH3 NO2NO3
		TDS
AMBIVEIC		HARDNESS, (METALS ON HOLD)
	_	4,000,000,000,000

SAMPLEID	No. & Type of Containers	Sampling Date/Time	Matrix	Semple Comp/Grab								ENTER PRESERVATIVE CODE:  O Name  S Sadium Hydroxide
cor - GRAB 1		5-29-13/09:20	W Water	Grab	X	X	<b>(</b> )	₹ <u></u>	Π			1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA
ool - GRAB 2		1 /09:35	W Water	Grab	X	X	</td <td>1</td> <td>Τ</td> <td></td> <td>1.</td> <td>3 Sulfuric Acid 8 Ascerbic Acid</td>	1	Τ		1.	3 Sulfuric Acid 8 Ascerbic Acid
001 - GRA83		109.50	W Water	Grah	X	X)	<>	<				4 Sodium Thiosultate
001 - GRAB 4		10:05	W Water	Grab	X	X	<>	1	1			COMMENTS:
			Choose	Chooso				1	1			ph Grabs
ogi - COMP		5-29-13 /14:00	W Water	Comp	П				X	X	XX	( 0 09:20 = 6.73 @ 21.0" ( 0 09:35 = 7.01 @ 22.6" ( 0 09:50 = 7.07 @ 20.7"
Start = 128 @ 14:00			Choose	Choose					1			(2) 09:35= 7.01 @ 22.6
Stop = 3/29 @ 14:00			Choose	Choose			T		Ī			(3) 09:50: 7.07 @ 20.7°C
TraBent-ma			Choose	Choose								4) 10:05 = 7.10 @ 21.3 °C
All analytical requests are subject to REK	C's Standard Terms	and Conditions	Temperati	ure at arrival:	1,~	·c	ICEC	)?	y <u>人</u>	-	N	

All analytical requests are subject to REIC's Standard T	Temperature at arrival:  , <- ° C	ICED? Y.K.	N		
A surrent traction of the	ChieTine 1945 Reinquish	wildey dia groundary	Oxe/line	Retrainment by (rigoriment	Catelline
/ / Mr /	5-29-13 Campfame/S 45 Ferreined by	y (signatory)	Oxe/live	Received by (signature)	Оже/пан





1432 Air Rail Avenue, Virginia Beach, VA 23455-3002 • 757.460.4205 • Fax: 757,460.6586 • www.hrsd.com

# 05/29/13 - Western Virginia Water Authority

This analytical report contains 5 pages

Janis Richardson
Environmental Programs Coordinator
Western Virginia Water Authority
1502 Brownlee Avenue, SE
Roanoke, VA 24014

Janis.Richardson@WesternVaWater.org

Date Sent:

06/07/13

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011 Effective Date: May 07, 2013 Expiration Date: June 14, 2013 Certificate # 2157

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

This report may not be reproduced, except in full, without written approval from HRSD.

If you have any questions concerning this report, please do not hesitate to contact
Danny Barker, TSD Environmental Scientist at (757) 460-4247

<u>dbarker@hrsd.com</u>

Robin Parnell, CEL Laboratory Manager at (757) 460-4203.

<u>rparnell@hrsd.com</u>

Cindi Reno, CEL Administrative Assistant at (757) 460-4205.

<u>creno@hrsd.com</u>





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### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

Customer Sample ID:

Field Blank

Project Code:

WVWA

Sample Point:

FB

Sample Date:

05/29/13

			•	Report			Ańalysis
Analyte	Method	Unit	Result	Limit <sup>1</sup>	Analyst	Analysis Date	Time
Antimony Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	06/04/13	11:22
Arsenic Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	06/04/13	11:22
Beryllium Total	EPA 200:8	ug/L	< 0.10	0.10	KWILLI	06/04/13	11:22
Cadmium Total	EPA 200.8	ug/L	< 0.05	0.05	KWILLI	06/04/13	11:22
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	06/04/13	11:22
Copper Total	EPA 200.8	ug/L	<0.50	0.50	KWILLI	06/04/13	11:22
Lead Total	EPA 200.8	ug/L	< 0.10	0:10	KWILLI	06/04/13	11:22
Mercury Total	EPA 245.1	ug/L	< 0.10	0.10	SWILLI	06/06/13	10:41
Nickel Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	06/04/13	11:22
Selenium Total	EPA 200.8	ug/L	< 0.50	0.50	ŔWILLI	06/04/13	11:22
Silver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	06/04/13	11:22
Thallium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	06/04/13	11:22
Zinc Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	06/04/13	11:22

 $\frac{\textbf{Notes}}{^{I}} \textit{Report Limit is lowest concentration at which quantitation is demonstrated}.$ 

Authorization/ Lab Manager A Manager

Date: 06-07-13

WVWA FB 052913 - Page 1



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### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

Customer Sample ID:

Final Effluent

Project Code:

WVWA

Sample Point:

FNE

Sample Date:

05/29/13

				Report			Analysis
Analyte	Method	Unit	Result	Limit <sup>1</sup>	Analyst	Analysis Date	Тіте
Antimony Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	06/04/13	11:29
Arsenic Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	06/04/13	11:29
Beryllium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	06/04/13	11:29
Cadmium Total	EPA 200.8	ug/L	< 0.05	0.05	KWILLI	06/04/13	11:29
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	06/04/13	11:29
Copper Total	EPA 200.8	ug/L	5,75°	0.50	KWILLI	06/04/13	11:29
Lead Total	EPA 200.8	ug/L	0.14	0.10	KWILLI	06/04/13	11:29
Mercury Total	EPA 245.1	ug/L	< 0.10	0.10	SWILLI	06/06/13	[0:44
Nickel Total	EPA 200.8	ug/L	2.17	0.50	KWILLI	06/04/13	11:29
Selenium Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	06/04/13	11:29
Silver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	06/04/13	11:29
Thallium Total	EPA 200.8	ug/l	<0.10	0.10	KWILLI	06/04/13	11:29
Zinc Total	EPA 200.8	ug/L	14.5	1.0	KWILLI	06/04/13	11:29

Authorization: Lab Manager QA Manager Date: 06-07-13

WVWA FNE 052913 - Page 1

 $<sup>\</sup>frac{\textbf{Notes}}{l} \\ Report\ Limit\ is\ lowest\ concentration\ at\ which\ quantitation\ is\ demonstrated.$ 



# CENTRAL ENVIRONMENTAL LABORATORY QUALITY ASSURANCE REPORT Level 1



Project:

Western Virginia Water Authority

Project Code:

**WVWA** 

Sample Point:

FNE

Sample Date:

05/29/13

Analytical Run Information	Sb	As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Method	200.8	200.8	200.8	200.8	200.8	200.8	200.8	245.1	200.8	200.8	200.8	200.8	200.8
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Limit of Detection (LOD)	0.22	0.06	0.01	0.006	0.04	0.09	0.01	0.03	0.08	0.12	0.05	0.03	0.24
Limit of Quantitation (LOQ)	1.0	1.0	0.10	0.05	1.00	0.50	0.10	0.10	0.50	0.50	0.10	0.10	1.00
Method Blank (MB)	< 0.22	< 0.06	< 0.01	< 0.006	0.05*	< 0.09	0.07*	< 0.03	<0.08	< 0.12	< 0.05	< 0.03	·<0.24
Total Motole								'					

### Total Metals

Sample ID: WVWA FNE		
Matrix Spike Conc.	•	1.0
MS Percent Recovery		100%
MSD Percent Recovery		99%
MS/MSD RPD		<1

<sup>\*</sup>Report Limit is lowest concentration at which quantitation is demonstrated. Values below report limit should not be used for compliance determination due to a high degree of uncertainty.

Validated By:

Date: 6/6/13

HRS	<u>5</u>	CENTRAL 1432 AIR RA VIRGINIA BE	IL AVENUI	E	AL LABO	RATORY								CH	IAIN	OF (	วบรา	LOD.	Y					
Occurry metricates being day to	a Abeter Bay	TEL: 757-460 FAX: 757-460	0-4214	.0400						· · · · · · · · · · · · · · · · · ·	· <u> </u>	Α	NALYSE	S REQ	JESTEO	, CGN 8	NUMB	R OF C	ONTAI	NERS				<del></del>
PROJECT NAME/C	ODE, WASH		D-0300																				Project i Yes _ No	in Lims?
, NOOLOT WARE,O	00E: <u>WWW</u>					Circle	Circte	Total Metals (5)																
	HRSD	Use Only				Опе	Оле		i											<u> </u>	<u></u>		HR\$D U	
CUSTOMER Sample ID	PROJECT	SAMPLE POINT	DATE	TIME	SAMPLED BY	MATRIX	SAMPLE TYPE						100			7.5							Presy'd Checked	COUNT
Flefd Blank	WWW.	FB	V. 121-051.	1973 ONY	-aide (B	L	C	1_1_											<u> </u>	1	ــــــ	<u> </u>		<u> </u>
Eifkant	WWWA	FNE	+	Į,	+ LB	L	C	-	1		<del> </del> -				-				-	-	<del> </del>			1-1
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COMMENTS:		<u> </u>	<u> </u>		<u>i                                      </u>	<del></del>	<u> </u>		<u></u>	i	1			<u>.                                    </u>	<u>.                                    </u>	<u>.                                    </u>		<u> </u>	<u></u>	<u>,}</u>	For Gr	pand W	ter Use (	XIV. S
Dela	ier i	Via 1	Bert	vex	" ~ (	411	5/2	1/3	d												Tamp. Temp	Blank 1 Blank 2		°C -
		20 A.M.		ad Ac		196.50		Te	mp. Re	quiren	nent			<u> </u>				*Pres	ervativ	/es				
Relinquished by / Signat	lura Yay/	Burn	7		Dele/Time (	5/29/13	3:23	pM					°Hg, Me	tals (pH<	2 - HNO3	(Clean n	netals che	ek in sec	tion)					
Received by / Signature		ul 129	wint		Dale/Time	9 29	1330	Semi	niuper ent	ed, subn franspor	nitted rted in		.O8G (b	H<2 - HC	t, check i	n section)	& store &	6 °C						
Relinquished by / Signat	ture	111	1		Dale/Time	301	44		ers malat				си (рн	>12 - Na(	OH)& slo	e <u>≤</u> 6*C								
Received by / Signature		May 1	211		Date/Time A	5/39/12	E, C83/	1					*Sulfide	(pH>9 - l	laOH+Zn	Ac) & sto	e < 6 °C							
Refinquished by / Signat				***	Date/Time	15/30	<del>//3 )                                  </del>	Ye	<u> </u>	No						store <	10°C							
Received by / Signature					Date/Tinte	- 1		ł		11/1	7 .			IUT, Phe			· · ·				(pH<2 -	H <sub>2</sub> SO <sub>4</sub> ) 8	store ≤ 6°	<u>c                                     </u>
Refinquished by / Signat					Date/Time			ł	lat(	<u> </u>	/					re ≤ 6 °C								
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M sample(s) mot prop	er "preserval	llan requiremen	nts,		Yes	~/	No		lat 6	40			1		(-	****								-
iample Type: C=Comp	osite, G=Gral	b		Matrix: L=	Liquid S =	Solid		CGN: 0	Containe	r Group	Number													

Sample Type: C=Composite, G=Grab Matrix: L= Liquid , S = Solid NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.



### Improving the environment, one client at a time...

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276 101 17th Street Ashland, KY 41101 TEL: 606.393.5027 1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.777.1276 16 Commerce Drive Westover, WV 26501

TEL: 304.241.5861

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500 Website: www.reiclabs.com

Wednesday, July 03, 2013

Ms. Janis Richardson WESTERN VA WATER WWTP 1502 BROWNLEE AV SE ROANOKE, VA 24014

TEL: (540) 853-1517 FAX: (540) 853-1307

RE: JUNE SAMPLING
Work Order #: 1306V19
Dear Ms. Janis Richardson:

REI Consultants, Inc. received 5 sample(s) on 6/27/2013 for the analyses presented in the following report. Sincerely,

Joy Castle

Project Manager



## **REI Consultants, Inc. - Case Narrative**

WO#: 1306V19

Date Reported: 7/3/2013

**Client:** 

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

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### **DEFINITIONS:**

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

### QUALIFIERS:

\*: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

### **CERTIFICATIONS:**

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150

Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094

WO#: 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Lab ID:

1306V19-01A

Client Sample ID:

001 - GRAB 1

**Collection Date:** 

6/27/2013 2:05:00 PM

Date Received:

Matrix:

6/27/2013

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual Units	Date Analyzed
Field Parameters		Metho	d: FLD	·		Analyst:
FieldSampler	MV			NA		
pH, SM4500H+ B	7.41			NA	S.U.	
Temperature, SM 2550B	20.2			NA	deg C	
OIL and GREASE		Metho	d: EPA1	664A		Analyst: MC
Oil & Grease	ND	2.0	5.0	NA	mq/L	7/3/2013 9:00 AM

WO#: 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Lab ID:

1306V19-02A

Client Sample ID:

001- GRAB 2

**Collection Date:** 

6/27/2013 2:20:00 PM

Date Received:

6/27/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD	• **-	·		Analyst:
FieldSampler	MV			NA			
pH, SM4500H+ B	7.34			NA ·		S.U.	
OIL and GREASE		Metho	d: EPA1	664A			Analyst: MC
Oil & Grease	ND	2.0	5.0	NA		mg/L	7/3/2013 9:00 AM

WO#: 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Lab ID:

1306V19-03A

Client Sample ID:

001 - GRAB 3

**Collection Date:** 

6/27/2013 2:35:00 PM

Date Received:

6/27/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual , Units	Date Analyzed
Field Parameters		Metho	d: FLD		-0	Analyst:
FieldSampler pH, SM4500H+ B	MV 7.32			NA NA	S.U.	
OIL and GREASE		Metho	d: EPA1	664A		Analyst: MC
Oil & Grease	ND	2.0	5.0	NA	mg/L	7/3/2013 9:00 AM

WO#: 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Lab ID:

1306V19-04A

Client Sample ID:

001 - GRAB 4

Collection Date:

6/27/2013 2:50:00 PM

Date Received:

6/27/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD				Analyst:
FieldSampler	MV			NA			
pH, SM4500H+ B	7.29			NA		S.U.	
ACROLEIN BY E624		Metho	d: E624				Analyst: RB
Acrolein	ND	5.0	10	NA		µg/L	6/28/2013 6:56 PM
VOLATILE ORGANIC COMPOUNDS		Metho	d: E624				Analyst: RB
Benzene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Bromodichloromethane	4.3	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Bromoform	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Bromomethane	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Carbon tetrachloride	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Chlorobenzene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Chloroethane	ND	0.5	1.0	NA		ug/L	6/28/2013 6:56 PM
Chloroform	12.5	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Chloromethane	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Dibromochloromethane	1.2	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
1,2-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
1,3-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
1,4-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
1,1-Dichloroethane	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
1,2-Dichloroethane	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
1,1-Dichloroethene	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
trans-1,2-Dichloroethene	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
1,2-Dichloropropane	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
cis-1,3-Dichloropropene	ND	0.5	1.0	NA		μq/L	6/28/2013 6:56 PM
trans-1,3-Dichloropropene	ND	0.5	1.0	NÁ		μg/L	6/28/2013 6:56 PM
Ethylbenzene	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
Methylene chloride	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
1,1,2,2-Tetrachloroethane	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
Tetrachloroethene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Toluene	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
1,1,1-Trichloroethane	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
1,1,2-Trichloroethane	ND	0.5	1.0	NA		ug/L	6/28/2013 6:56 PM
Trichloroethene	ND	0.5	1.0	NA		μg/L	6/28/2013 6:56 PM
Trichlorofluoromethane	ND	0.5	1.0	NA		µg/L	6/28/2013 6:56 PM
Vinyl chloride	ND	0.5	1.0	NÄ		μg/L	6/28/2013 6:56 PM
Surr: 1,2-Dichloroethane-d4	84.1	NA	73.2-133	NA		%REC	6/28/2013 6:56 PM
Surr: Toluene-d8	107	NA	71-132	NA		%REC	6/28/2013 6:56 PM

WO#: 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Lab ID:

1306V19-04A

Client Sample ID:

001 - GRAB 4

**Collection Date:** 

6/27/2013 2:50:00 PM

Date Received:

6/27/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Surr: 4-Bromofluorobenzene	103	NA	74.2-129	NA		%REC	6/28/2013 6:56 PM
VOLATILE ORGANIC COMPOUNDS-624		Metho	d: E624				Analyst: RB
2-Chloroethyl vinyl ether	ND	2.5	5.0	NA		μg/L	6/28/2013 6:56 PM
Acrylonitrile	ND	5.0	10	NA		μg/L	6/28/2013 6:56 PM
4-Methyl-2-pentanone	ND	5.0	10	NA		μg/L	6/28/2013 6:56 PM
Surr: 1,2-Dichloroethane-d4	84.1	NA	73.2-133	NA		%REC	6/28/2013 6:56 PM
Surr: Toluene-d8	107	NA	71-132	NA		%REC	6/28/2013 6:56 PM
Surr: 4-Bromofluorobenzene	103	NA	74.2-129	NA		%REC	6/28/2013 6:56 PM
OIL and GREASE		Metho	d: EPA16	64A			Analyst: MC
Oil & Grease	ND	2.0	5.0	NA		mg/L	7/3/2013 9:00 AM
PHENOLICS		Metho	d: E420.1				Analyst: BA
Phenolics	ND	0.005	0.010	NA		mg/L	7/2/2013 12:00 PM
Cyanide		Metho	d: E335.4	ļ			Analyst: AL
Cyanide, Total	ND	0.005	0.020	NA		mg/L	6/28/2013 11:23 AM

# REI Consiltants, Inc. - QC SUMMARY REPORT

w 1

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

1664\_HEM

Sample ID:	LCS-R306792	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	306792	
Client ID:	LCSW	Batch ID:	R306792		TestNo:	EPA1664A			Analysis	Date:	7/3/2013 Se	qNo:	4574831	
Analyte			Result	PQL	SPK value	SPK Ref Va	!	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease		<del></del>	37.9	5.0	40.0	C	)	94.8	77.9	114.1		·		
Sample ID:	LCSD-R306792	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Date	e:	Ru	nNo:	306792	
Client ID:	LCSS02	Batch ID:	R306792		TestNo:	EPA1664A			Analysis	Date:	7/3/2013 Se	qNo:	4574832	
Analyte		•	Result	PQL	SPK value	SPK Ref Va	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			33.8	5.0	40.0	C	)	84.5	77.9	114.1	37.9	11.4	20	
Sample ID:	MB-R306792	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Date	<b>e</b> :	Ru	nNo:	306792	
Client ID:	PBW	Batch ID:	R306792		TestNo:	EPA1664A			Analysis	Date:	7/3/2013 Sec	ηNo:	4574833	
Analyte		1	Result	PQL	SPK value	SPK Ref Val	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			ND	5.0										

# REI Consultants, Inc. - QC SUMMARY REPORT



Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

624\_ACROLEIN

Sample ID:	8260/624 LCS	Samp Type:	LCS		Test Code:	624_ACROL EIN	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	6/28/2013 Se	qNo:	4571492	
Analyte	•	•	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit .	Qual
Acrolein			91	10	100.0	0		90.7	70	130				
Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_ACROL	Únits:	μg/L	Prep Dat	e:	· Ru	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	<b>6/28/2013</b> Se	qNo:	4571493	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acroleіп			ND .	10				*						
Sample ID:	8260/624 LCS	Samp Type:	LCS		Test Code:	624_ACROL EIN	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	6/29/2013 Se	qNo:	4574429	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acrolein			110	10	100.0	0		108	70	130				
Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_ACROL	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	6/29/2013 Se	qNo:	4574430	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acrolein			ND	10									•	

# REI Corleitants, Inc. - QC SUMMARY REPORT

W 1306

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

Sample ID:	8260/624 LCS	Samp Type:	LCS	٦	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633	٦	TestNo:	E624			Analysis	Date:	<b>6/28/2013</b> Se	qNo:	4571484	
Analyte			Result	PQL	SPK value	SPK Ref Va	əl	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			8.6	1.0	10		0	86.1	77	150		·		
Bromodichlor	omethane		8.6	1.0	10		0	85.7	17.	. 157			•	
Bromoform			7.7	1.0	10		0	77.3	22	157				
Bromomethar	ne	•	4.8	1.0	10		0	48.1	0	242				
Carbon tetrac	chloride		8.9	1.0	10		0	89.4	59	127				
Chlorobenzer	ne		9.9	1.0	10		0	99.4	91	151				
Chloroethane	•		10.1	1.0	10		0	101	0	258				
Chloroform			8.7	1.0	10	,	0	87.2	50	153				
Chloromethar	пе		8.2	1.0	10		0	81.9	0	279				
Dibromochlor	omethane		8.8	1.0	10	,	0	87.7	47	154				
1,2-Dichlorob	enzene		8.9	1.0	10	į	0	88.9	67	211				
1,3-Dichlorob	enzene		9.6	1.0	10	ļ	0	96.1	89	157				
1,4-Dichlorob	enzene		9.1	1.0	10	ļ	0	91.4	67	211				
1,1-Dichloroe	thane		12.5	1.0	10	, (	0	125	55,	<sub>.</sub> 163				
1,2-Dichloroe	thane		8.2	1.0	10	1	0	81.7	61	152				
1,1-Dichloroe	thene		8.9	1.0	10	ı	0	88.9	0	237				
trans-1,2-Dict	nloroethene		8.4	1.0	10	•	0	84.0	52	158				
1,2-Dichlorop	ropane		8.2	1.0	10	(	0	82.2	0	210				
cis-1,3-Dichlo	ropropene		7.6	1.0	10	(	0	75.7	. 0	227				
trans-1,3-Dict	nloropropene		8.4	1.0	10	(	0	83.7	17	183				
Ethylbenzene			9.5	1.0	10	(	0	95.3	87	. 159				
Methylene chl	loride		5.9	1.0	10	(	0	59.1	0	286			•	
1,1,2,2-Tetrac	chloroethane		9.5	. 1.0	10	ا د ۱۰	0	94.8	47	175				
Tetrachloroetl	hene		9.6	1.0	10	(	0	96.2	79	145				
Toluene			9.3	1.0	10	(	0	93.3	79	145				
1,1,1-Trichlore	oethane		9.3	1.0	10		0	92.9	65	162				
1,1,2-Trichlore	oethane		8.9	11.0	10	(	0	89.4	63	161				
Trichloroether	ne		8.6	1.0	10		Ď	85.9	75	178				
Trichlorofluoro	omethane		6.9	1.0	10	(	D	69.0	27	179		•		
Vinyl chloride			6.6	1.0	10	(	0	66.3	0	259				

# REI Corleitants, Inc. - QC SUMMARY REPORT

W 130

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

624 L

		SAMELING	_								Test Code:	624_	. <b>L</b>	
Sample ID:	8260/624 LCS	Samp Type:	LCS		Test Code:	624_L	Units:	µg/L	Prep Dat	te:	Ru	ınNo:	306633	
Client ID:	LCSW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	<b>6/28/2013</b> Se	aNo:	4571484	
Analyte		ı	Result	PQL	SPK value	e SPK Ref	\/al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
	ichloroethane-d4	- 1	9:7	- I GEL	10		Vai	96.7	74	140	RPD Rei Value	70KFD	REDLIMIL	Qual
Surr: Tolue			10.6		10			106	71.1	126				
Surr: 4-Bro	omofluorobenzene		10.6		10			106	75.9	129				
Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_L	Units:	μg/L	Prep Dat	te:	Ru	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633	•	TestNo:	E624			Analysis	Date:	6/28/2013 Se	qNo:	4571485	
Analyte		F	Result	PQL	SPK value	SPK Ref	Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			ND	1.0							•••	•••		
Bromodichlord	omethane		ND	1.0										
Bromoform			ND	1.0										
Bromomethar	ne		ND	1.0									4	
Carbon tetrac	chloride		ND .	1.0									•	
Chlorobenzen	ne		ND	1.0										
Chloroethane	•		ND	1.0					•				•	
Chloroform			ND	1.0						-				
Chloromethan	ne		ND	1.0										
Dibromochloro	omethane		ND	1.0										
1,2-Dichlorobe	enzene		ND	1.0						-				
1,3-Dichlorobe	enzene		ND	1.0										
1,4-Dichlorobe	enzene		ND	1.0									•	
1,1-Dichloroet	thane		ND	1.0										
1,2-Dichloroet	thane		ND	1.0										
I,1-Dichloroet	thene		ND	1.0										
rans-1,2-Dich	nloroethene		ND	1.0										
,2-Dichloropr	ropane		ND	1.0										
is-1,3-Dichlor	ropropene		ND	1.0										
rans-1,3-Dich	nloropropene		ND	1.0										
Ethylbenzene		_	ND	· 1.0										
Methylene chl	loride	•	ND	1.0										
	chloroethane		ND	1.0									•	

# REI Conditants, Inc. - QC SUMMARY REPORT



Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633	-	FestNo:	E624			Analysis	Date:	6/28/2013 Se	qNo:	4571485	
Analyte			Result	PQL	SPK value	SPK Ref Va	al .	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Tetrachloroe	thene		ND	1.0				•						
Toluene			ND	1.0										
1,1,1-Trichlo	roethane		ND	1.0										
1,1,2-Trichlor	roethane		ND,	1.0										
Trichloroethe	ene		ND	1.0										
Trichlorofluor	romethane		ND	1.0										
Vinyl chloride	•		ND	1.0										
Surr: 1,2-E	Dichloroethane-d4		10.4		10			104	73.2	133				
Surr: Tolue	ene-d8		10.6		10			106	71	132				
Surr: 4-Bro	omofluorobenzene	<u> </u>	10.5		10			105	74.2	129				
Sample ID:	8260/624 LCS	Samp Type:	LCS	٦	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Rui	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633	٦	restNo:	E624			Analysis	Date:	6/29/2013 Sec	ηNo:	4574417	
Analyte			Result	PQL	SPK value	SPK Ref Va	al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit ,	Qual
Benzene			10.1	1.0	10	ı	D	101	77	150				***
Bromodichlor	romethane		9.8	1.0	10	ļ	0	98.4	17	157			•	
Bromoform			8.7	1.0	10	ĺ	0	87.3 -	22	157				
Bromometha	ne .		5.8	1.0	10	(	0	57.9	0	242				
Carbon tetrad	chloride		10.9	1.0	10	(	0	109	59	127				
Chlorobenzer	ne		11.4	1.0	10	(	0	114	91	151				
Chloroethane	•		9.9	1.0	10	(	О	98.7	0	258				
Chloroform -			10.1	1.0	10		)	101	50	153				
Chlorometha	пе		8.7	1.0	10	(	)	87.0	0	279				
Dibromochlor	romethane		10	1.0	10	(	ס	101	47	154	,			
1,2-Dichlorob	enzene		10.6	1.0	10	(	)	106	67	211				
1,3-Dichlorob	епzепе		10.9	1.0	10	(	כ	109	89	157				
	enzene		10.3	1.0	10	. (	כ	103	67	211	4			
1,4-Dichlorob														
1,4-Dichlorob 1,1-Dichloroe	thane		14.6	1.0	10	(	)	146	55	163				
				1.0 1.0	10 10	(		146 97.9	55 61	163 152				

# REI Consultants, Inc. - QC SUMMARY REPORT

W 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

Sample ID:	8260/624 LCS	Samp Type:	LCS	٦	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633	7	TestNo:	E624			Analysis	Date:	6/29/2013 Se	qNo:	4574417	
Analyte			Result	PQL	SPK value	SPK Ref Va	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
trans-1,2-Dic	chloroethene		9.8	1.0	10	C	)	98.1	52	158			•	
1.2-Dichlorop	propane		9.1	1.0	10	C	)	90.9	0	210				
cis-1,3-Dichle			8.7	1.0	10	C	)	87.1	0	227				
trans-1,3-Dic	chloropropene		9.9	1.0	10	C	)	99.4	17	183				
Ethylbenzene	e		11.1	1.0	10	C	)	111	87	159				
Methylene ch	nloride		7.5	1.0	10	C	)	75.4	0	286				
1,1,2,2-Tetra	chloroethane		10.1	1.0	10	C	)	101	47	175				
Tetrachloroet	thene		11.4	1.0	10	O	)	114	79	145				
Toluene			10.7	1.0	10	O	)	107	79	145				
1,1,1-Trichlor	roethane		10.8	1.0	10	O	)	108	65	162				
1,1,2-Trichlor	roethane		9.4	1.0	10	O	)	93.7	63	161				
Trichloroethe	ene		9.8	1.0	10	O	)	97.6	75	178				
Trichlorofluor	romethane		8.4	1.0	10	O	)	83.7	27	179	•			
Vinyl chloride	•		8.4	1.0	10	. 0	)	83.8	0	259				
Surr: 1,2-D	Dichloroethane-d4		9.4		10			94.4	74	140	,			
Surr: Tolue	ene-d8		10.9		10			109	71.1	126		•		
Surr: 4-Bro	omofluorobenzene		10.5		10			105	75.9	129				
Sample ID:	BLANK	Samp Type:	MBLK	Т	est Code:	624_L	Units:	μg/L	Prep Dat	e:	Rui	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633	Ŧ	estNo:	E624			Analysis	Date:	6/29/2013 Sec	ηNo:	4574418	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			ND	1.0							,			
Bromodichlor	romethane		ND	1.0			_						•	
Bromoform			ND	1.0										
Bromomethar	ne		ND .	1.0	•									
Carbon tetrac	chloride		ND	1.0										
Chlorobenzer	ne		ND	1.0										
Chloroethane	•		ND	1.0										
Chloroform			ND	1.0										
Chloromethar	ne		NĎ	1.0										

# REI Conditants, Inc. - QC SUMMARY REPORT

W

1306V

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_L	Units:	μg/L	Prep Dat	te:	Ru	ınNo:	306633	
Client ID:	PBW	Batch ID:	R306633		TestNo:	E624			Analysis	Date:	6/29/2013 Se	qNo:	4574418	
Analyte		_	Result	PQL	SPK value	SPK Ref Val	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit .	Qual
Dibromochloro	omethane		ND	1.0										
1,2-Dichlorobe	enzene		ND	1.0										
1,3-Dichlorobe	enzene		ND	1.0										
1,4-Dichlorobe	enzene		ND	1.0										
1,1-Dichloroet	hane		ND	1.0										
1,2-Dichloroet	hane .		ND	1.0										
1,1-Dichloroet	hene		ND	1.0										
rans-1,2-Dich	loroethene		ND	1.0										
1,2-Dichloropr	opane		ND	1.0		•								
cis-1,3-Dichlor	ropropene		ND	1.0										
rans-1,3-Dichl	loropropene		ND	1.0	•									
Ethylbenzene			ND	1.0										
Methylene chlo	oride		ND	1.0									•	
1,1,2,2-Tetracl	hloroethane		ND	1.0									•	
Tetrachloroeth	ene		ND	1.0										
Foluene .			ND	1.0										
1,1-Trichloro	ethane		ND	1.0		•								
,1,2-Trichloro	ethane		ND	1.0										
richloroethen	e		ND	1.0										
Trichlorofluoro	methane		ND .	1.0										
/inyl chloride			ND	1.0										
Surr: 1,2-Did	chloroethane-d4		10.5		10			105	73.2	133				
Surr: Toluen	ne-d8		10.6		10			106	71	132				
Surr: 4-Bron	nofluorobenzene		10.5		10			105	74.2	129				

# REI Consultants, Inc. - QC SUMMARY REPORT

W 1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

624\_SUP\_L

Sample ID:	8260/624 LCS	Samp Type:	LCS	•	Test Code:	624_SUP_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633	-	TestNo:	E624			Analysis	Date:	<b>6/28/2013</b> Se	qNo:	4571488	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	l vinyl ether		37.1	5.0	50.0	0		74.2	70	130				
Acrylonitrile			71.2	10	100	0		71.2	70	130				
4-Methyl-2-p	entanone		79.4	10	100	0		79.4	70	130				
Surr: 1,2-l	Dichloroethane-d4		9.7		10	•		96.7	76	114				
Surr: Tolu	ene-d8		10.6		10			106	88	110				
Surr: 4-Br	omofluorobenzene		10.6		10			106	86	115				
Sample ID:	BLANK	Samp Type:	MBLK		Test Code:	624_\$UP_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	PBW	Batch ID:	R306633	-	TestNo:	E624			Analysis	Date:	<b>6/28/2013</b> Se	qNo:	4571489	
Analyte		·	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	l vinyl ether		ND	5.0						•				
Acrylonitrile			ND	10					•					
4-Methyl-2-p	entanone		ND	10										
Surr: 1,2-1	Dichloroethane-d4		10.4		10			104	73.2	133				
Surr: Tolu	ene-d8		10.6		10			106	71	132			•	
Surr: 4-Br	omofluorobenzene		10.5		10			105	74.2	129				
Sample ID:	8260/624 LCS	Samp Type:	LCS	-	Test Code:	624_SUP_L	Units:	µg/L	Prep Dat	e:	Ru	nNo:	306633	
Client ID:	LCSW	Batch ID:	R306633	-	TestNo:	E624			Analysis	Date:	6/29/2013 Se	qNo:	4574423	
Analyte		I	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	vinyl ether		36.3	5.0	50.0	0		72.6	70	130		-		
Acrylonitrile	•		71.8	10	100	0		71.8	70	130		•		
4-Methyl-2-p	entanone		85.8	10	100	0		85.8	70	130				
Surr: 1,2-[	Dichloroethane-d4		9.4		10			94.4	76	114				
Surr: Tolu	ene-d8		10.9		10			109	88	110				
Surr: 4-Bre	omofluorobenzene		10.5		10			105	86	115				

# REI Conditants, Inc. - QC SUMMARY REPORT

W

1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

624\_SUP\_L

Sample ID: Client ID:	BLANK PBW	Samp Type: Batch ID:	MBLK R306633		fest Code: festNo:	624_SUP_L E624	Units:	μg/L	Prep Dat Analysis		Ru <b>6/29/2013</b> Sei	nNo: qNo:	306633 4574424	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	l vinyl ether		ND	5.0										
Acrylonitrile			ND	10										
4-Methyl-2-p	entanone		ND	10					-					
Surr: 1,2-E	Dichloroethane-d4		10.5		10			105	73.2	133				
Surr: Tolue	ene-d8		10.6		10			106	71	132				
Surr: 4-Bro	omofluorobenzene		10.5		10			105	74.2	129	•			

# REI Contaitants, Inc. - QC SUMMARY REPORT

w

1306V19

Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

Test Code:

CN\_335.4

Sample ID:	MB-44404	Samp Type:	MBLK		Test Code:	CN_335.4	Units:	mg/L	Prep Date	e:	<b>6/28/2013</b> Ru	nNo:	306525	
Client ID:	PBW	Batch ID:	44404		TestNo:	E335.4			Analysis	Date:	6/28/2013 Se	qNo:	4569451	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tota	al ·		ND	0.020										
Sample ID:	LCS-44404	Samp Type:	LCS		Test Code:	CN_335.4	Units:	mg/L	Prep Date	e:	<b>6/28/2013</b> Ru	nNo:	306525	
Client ID:	LCSW	Batch ID:	44404		TestNo:	E335.4			Analysis	Date:	6/28/2013 Sec	qNo:	4569452	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tota	al		0.099	0.020	0.100	0		98.7	89.9	110.1				
Sample ID:	LCSD-44404	Samp Type:	LCS		Test Code:	CN_335.4	Units:	mg/L	Prep Date	<b>∋</b> :	6/28/2013 Rui	nNo:	306525	
Client ID:	LCSW	Batch ID:	44404		TestNo:	E335.4			Analysis I	Date:	6/28/2013 Sec	qNo:	4569453	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tota	a i		0.096	0.020	0.100	0		95.8	89.9	110.1				

# REI Conditants, Inc. - QC SUMMARY REPORT



Date Reported: 7/3/2013

Client:

WESTERN VA WATER WWTP

Project:

JUNE SAMPLING

**Test Code:** 

PHENOLICS\_L

Sample ID:	MB-R306754	Samp Type:	MBLK	-	Test Code:	PHENOLICS	Units:	mg/L	Prep Dat	e:	Ru	nNo:	306754	
Client ID:	PBW	Batch ID:	R306754	-	TestNo:	E420.1			Analysis	Date:	<b>7/2/2013</b> Se	qNo:	4573981	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			ND	0.010										
Sample ID:	LCS-R306754	Samp Type:	LCS	-	Test Code:	PHENOLICS	Units:	mg/L	Prep Dat	e: .	Ru	nNo:	306754	
Client ID:	LCSW	Batch ID:	R306754	-	TestNo:	E420.1			Analysis	Date:	7/2/2013 Se	qNo:	4573982	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
													<del></del>	

475-09

### CHAIN OF CUSTODY RECORD WVWA Phone (540) 853 - 1517 Billing Address (if different) Research Environmental & Industrial Consultants, Inc. MAIN LABORATORY & CORPORATE HEADQUARTERS: P.O. Box 286 - 225 Industrial Park Rd, Beaver, WV 25813 Site ID & State OU 1 800-999-0105 - 304-255-2500 - www.reiclabs.com MID:OHIO VALLEY ROANOXE MORGANTOWN SHENANDOAH Service Center Service Center Service Center Service Center 101 17th Street 1557-Commerce Rd., Sie 201 3029-C Peters Creek Rd 16 Commerce Drive Ashland, KY 41101 Verona, VA 24482 Roanoke, VA 24019 Westaver, WV 26501 605-393-5027 540-248-0183 5401777-1276 304-241-5861 **SAMPLE LOG & ANALYSIS REQUEST TURNAROUND TIME** RUSH TURNAROUND SDAY BOAY BOAY TOAY NORMAL \*Rush workneeds prior laboratory approval and will incur additional charges Sample Comp/Crab No. & Type of ENTER PRESERVATIVE CODE: SAMPLEID Sampling Date/Time Containers 0 None 5 Sodium Hydroxide 6 Zinc Acetate 1 Hydrochloric Acid 6-27-11 YIX K 7 EDTA 2 Nitric Acid X 3 Sulfuric Acid 8 Ascorbic Acid 6012 4 Sodium Thiosulfate 6-27-13/ 1435 6,243 COMMENTS: YX 6-27-13/ GOL Y 20,2 7.41 Jo.S 7.32 21.9 7.29 210 All analytical requests are subject to REIC's Standard Terms and Conditions. Temperature of arrival: 2 ∘ C | ICED? Y ✓ Containers provided by: | | REIC | | Client 6-27-13/ Usta/Airfo/1600 FAX RESULTS EMAIL RESULTS Paking dished by Internations 6-27 -13 Secret Loc Received by Cognación Datestime COC-NCR-050213

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•			415012
CHAIN OF CUSTODY RECOR	D clients WVWA		PO#
	Contact Person Jania Riel	wdsin	Phone 540-853-1517
	QUOTE#		
V A A ALL REIL	Address	City	StateZip
	Billing Address (if different)	-	
Research Environmental & Industrial Consultants, Inc. MAIN LABORATORY & CORPORATE HEADQUARTERS:	City		. State Zip
P.O. Box 286 · 225 Industrial Park Rd, Beaver, WY 25813 800-999-0105 - 304-255-2500 · www.reiclabs.com	Site ID & State OG)		almy sampler Math Vess
MD-OHIO VALLEY SHENANDOAH ROANOM Service Center Service Center 101 17th Street 1557 Commerce Rd., Ste 201 3029-C Peters C Ashland, KY 41101 Verona, VA 24482 Roanoke, VA, 606-393/5027 540-248-0183 540-777-17	nter Service Center Service Center Service Center Service Center Service Servi	NAS NOLNOS	
TURNAROUND TIME RUSH TURNA  NORMAL S DAY 3 DAY  *Rush work needs prior laboratory approval and will incu	2 DAY 1 DAY 55	.0+0	
SAMPLEID No.8 Type of Containers Sampling	Date/Time Matrix Somple Comp/Grab O	302 11	ENTER PRESERVATIVE CODE:  0. None 5 Sodium Hydroxide
001 - COMP 6-25	MYS ww Gop XX	XX	1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA
0			3 Sulfuric Acid 8 Ascorbic Acid 4 Sodium Thiosulfate
COL COME TO DE DE 183	1940 ww Gas		· · · · · · · · · · · · · · · · · · ·
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All analytical requests are subject to REIC's Standard Terms and Conditions.	Temperature at arrival: °C	ICED? YN	Containers provided by: REIC     Client
lett-Author of University State Oracle 1545 Februaria and by large state of the sta	ni pojetne	FAX RESULTS	EMAIL RESULTS
Water Trayles James 1545 Hecaned in 15 games	CatesTear	Sir AMENT Hond Cellven	ed <u>Corner UPS Felder USA CODES</u>

COC-NCR-050213



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CHAIN OF CU	STODY RE	CORD c	ent;	wv	WA:				PO#
$\wedge$		Co	ntact Person						
			JOTE #						
	REIC	Ac	ldress					City	StateZip
			ling Address	(if different)					
Research Environmental &					City				State Zip
PO: Box 286 - 225 Industri 800-999-0105 - 304-255	si Park Rd, Beaver, WV 25	8)3 SA	e ID & State	901		Proj	ect ID	June Su	elling Sampler Hatt Vers
Service Center 59 101 17th Street 1557 Co Ashland, KY 41101 Ver	1 117 1 7	ROANOKE Service Center 29-C Peters Creek Rd Roanoke, VA 24019 540-777-1276	MORGAN Service C 16 Commer Westover, W 304-241	Center rce Drive V-26501	D.REQUESTED	•	Cyanir		and the second s
SAMPLE	LOG & ANAL	YSIS REQUES	T	n er transfer de person de la company de	METHOL	· • • • • • • • • • • • • • • • • • • •	Tel	ect the	to lites.
TURNARQUND TIME	R	USH TURNAROUND		:	~	1 1			
NORMAL	;5 DAY	3 DAY 2 DAY	T DAY		\$ 5	•	•	) <u>.</u>	
flush workingeds	pripr laboratory approva	and will incur additiona	charges		ANAL			,	and the figure of the contract
SAMPLE ID	No. & Type of Containers	Sampling Date/Ilms	Matrix	Samp Complé		1 5	3		ENTER PRESERVATIVE CODE:  0 None 5 Sodium Hydroxide
001 6ms1		6-27-13	<u> </u>	_ _6_	Х.	K 4	x .		1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDIA
001 GAL2		6-27-11/1420			× *	4 x	<b>y</b>   _		3 Sulfuric Acid 8 Ascorbic Acid. 4 Sodium Thiosulfate
001 Cres 3		6-27-13/ 1435			∛x ¥	6 x	x		
001 Gray 4		6-27-13/ 1450	J		*	KY	X		COMMENTS:
	- In the second			1					1. 7.41 20.2
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				-	- <del>                                    </del>				4. 7.29 21.0
analytical requests are subject	to REIC's Standard Term	s and Conditions.	Temper	ature at arri	val: Q °	C ICE	D) Y ✓		Containers provided by: REIC [ ] Client
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					- Mr # - MP TC -				CQC-NCR-050

CENTRAL PERIOD OF COLUMN COLUM

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HAIN OF CUSTODY RECO	RD Clent: WV	w4		PO#
	Contact Person	Richardson		Phone 540-883-1517
DEIP	QUOTE#		вж:	Email:
MARIA REIL	Address		City	StateZīp
Research Environmental & Industrial Consultants, Inc.	Billing Address (If different)	Verification and the second se		
MAIN LABORATORY & CORPORATE HEADQUARTERS:		City:		StateZip
P.O. Box 286 · 225 Industrial Park Rd, Beaver, WV 25813 800-999-0105 · 304-255-2500 · www.reiclabs.com	Site ID & State OO )	Project ID	June Supel	y Sampler Matt- Uss
D-OHIO VALLEY Service Center         SHENANDOAH Service Center         ROANT Service Center           101 17th Street shland, KY 41101         1557 Commerce Rd., Ste 201         3029-C Petershland, KY 41101           Verdna, VA 24482         Roanoke, V. 606-393-5027         540-248-0183         540-777-		EG .	ros	
SAMPLE LOG & ANALYSIS F	REQUEST	ЕТНОВ	Howeliess CM	dels on hold)
TURNAROUND TIME RUSH TUR		<b>∑</b>	000	
NORMAL S DAY 3 DAY		SIS		· <del>-</del>
*Rush work needs prior laboratory approval and will in	ncur additional charges	ANALYSIS		
SAMPLEID No.8 Type of Sample Containers	ing Date/Time Matrix Sample			NTER PRESERVATIVE CODE:  None 5 Sodium Hydroxide
001 - COMP 6-3	25-12/405 mm Carp	x x x X		1 Hydrochloric Acid 6 Zinc Acetate 2 Niulic Acid 7 EDTA 3 Sulfuric Acid 8 Ascorbic Acid
N C 14 AV AV AV 10-28	(1) 1410 WW God			4 Sodium Thiosulfate
	71430 WW Great			DMMENTS:
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ialytical requests are subject to REK's Standard Terms and Conc	ditions. Temperature at arriv	al: °C ICED?	YV N Cor	ntainers provided by: VREIC ( 1 Clien
16-25-3/ 2	Carry active active		X RESULTS	EMAIL RESULTS
ATT B 0-28-13	innation by logistics,	Date/Time Signal Date/Time		Country birs there was the
	The second secon			COC-NCR-05





1432 Air Rail Avenue, Virginia Beach, VA 23455-3002 • 757.460.4205 • Fax: 757.460.6586 • www.hrsd.com

# 06/27/13 - Western Virginia Water Authority

This analytical report contains 5 pages

Janis Richardson Environmental Programs Coordinator Western Virginia Water Authority 1502 Brownlee Avenue, SE Roanoke, VA 24014

Janis.Richardson@WesternVaWater.org

Date Sent: 07/16/13

HRSD CEL, Central Environmental Laboratory is VELAP/NELAC accredited by DCLS, the Division of Consolidated Laboratory Services.

VA Laboratory ID#: 460011 Effective Date: June 15, 2013 Expiration Date: June 14, 2014 Certificate # 2354

Analytical test results meet all requirements of VELAP/NELAC unless otherwise noted under the analysis.

Test results relate only to the sample tested. Clients should be aware that a critical step in chemical or microbiological analysis is the collection of the sample.

This report may not be reproduced, except in full, without written approval from HRSD.

If you have any questions concerning this report, please do not hesitate to contact
Danny Barker, TSD Environmental Scientist at (757) 460-4247

dbarker@hrsd.com

Robin Parnell, CEL Laboratory Manager at (757) 460-4203.

rparnell@hrsd.com

Cindi Reno, CEL Administrative Assistant at (757) 460-4205.

creno@hrsd.com



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### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

Customer Sample ID: Project Code:

Field Blank WVWA

Sample Point:

FB

Sample Date:

06/27/13

				Report			Analysis
Analyte	Method	Unit	Result	Limit <sup>)</sup>	Analyst	Analysis Date	Time
Antimony Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	07/08/13	14:33
Arsenic Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	07/08/13	14:33
Beryllium Total	EPA 200.8	นg/L	< 0.10	0.10	KWILLI	07/08/13	14:33
Cadmium Total	EPA-200.8	ug/L	< 0.05	0.05	KWILLI	07/08/13	14:33
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	07/08/13	14:33
Copper Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	07/08/13	14:33
Lead Total	EPA 200.8	ng/L	< 0.10	0.10	KWILLI	07/08/13	14:33
Mercury Total	EPA 245.1	ug/L	< 0.10	0.10	SWILLI	07/03/13	10:07
Nickel Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	07/08/13	14:33
Selenium Țotal	EPA-200.8	ug/L	< 0.50	0.50	KWILLI	07/08/13	14:33
Silver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	07/08/13	14:33
Thallium Total	EPA:200.8	ug/L	< 0.10	0.10	KWILLI	07/09/13	13:18
Zinc Total	EPA 200.8	ug/L	1.2	1.0	KWILLI	07/08/13	14:33

Authorization: Lab Managery QA Manager

 $<sup>\</sup>frac{\textbf{Notes}}{^{I}} \textit{Report Limit is lowest concentration at which quantitation is demonstrated.}$ 





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### CENTRAL ENVIRONMENTAL LABORATORY ANALYTICAL REPORT

Project:

Western Virginia Water Authority

Customer Sample ID:

Final Effluent

Project Code:

WVWA

Sample Point:

FNE

Sample Date:

06/27/13

				Report			Analysis
Analyte	Method	Unit	Result	Limit <sup>1</sup>	Analyst	Analysis Date	Time
Antimony Total	EPA 200:8	· ng/L	<1.0	1.0	KWILLI	07/08/13	14:30
Arsenic Total	EPA 200.8	ug/L	<1.0	1.0	KWILLI	07/08/13	14:30
Beryllium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	07/08/13	14:30
Cadmium Total	EPA 200.8	ug/L	< 0.05	0:05	KWILLI	07/08/13	14.30
Chromium Total	EPA 200.8	ug/L	<1.00	1.00	KWILLI	07/08/13	14:30
Copper Total	EPA 200.8	ug/l	5.53	0.50	KWILLI	07/08/13	14:30
Lead Total	EPA 200.8	ug/L	0.18	0.10	KWILLI	07/08/13	14:30
Mercury Total	EPA 245.1	ug/L	< 0.10	0.10	SWILLI	07/03/13	10:11
Nickel Total	EPA 200.8	ug/L	3.46	0.50	KWILLI	07/08/13	14:30
Selenium Total	EPA 200.8	ug/L	< 0.50	0.50	KWILLI	07/08/13	14:30
Silver Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	07/08/13	14:30
Thallium Total	EPA 200.8	ug/L	< 0.10	0.10	KWILLI	07/09/13	13:25
Zinc Total	EPA 200.8	ug/L	15.5	1.0	KWILLI	07/08/13	14:30

 $\frac{\textbf{Notes}}{l} \textit{Report Limit is lowest concentration at which quantitation is demonstrated,}$ 

Authorization: Lab Managery QA Manager



# CENTRAL ENVIRONMENTAL LABORATORY QUALITY ASSURANCE REPORT Level 1



Project:

Western Virginia Water Authority

**Project Code:** 

WVWA

Sample Point:

FB:FNE

Sample Date:

06/27/13

Analytical Run Information	Sb	- As	Be	Cd	Cr	Cu	Pb	Hg	Ni	Se	Ag	Tl	Zn
Method	200.8	200.8	200.8	200.8	200.8	200.8	200.8	245.1	200.8	200.8	200.8	200.8	200.8
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Limit of Detection (LOD)	0.22	0.06	0.01	0.006	0.04	0.09	0.01	0.03	0.08	0.12	0.05	0.03	0.24
Limit of Quantitation (LOQ)	1.0	1.0	0.10	0.05	1.00	0.50	0:10	0.10	0.50	0.50	0.10	0.10	1.00
Method Blank (MB)	< 0.22	< 0.06	0.02*	0.011*	< 0.04	< 0.09	< 0.01	< 0.03	<0.08	< 0.12	< 0.05	< 0.03	< 0.24
Total Metals	•												
Sample ID: WVWA FNE													
Matrix Spike Conc.	5.0	5.0	0.5	0.25	5.0	12.5	0.5		2:5	2.5	0.5	0.5	25.0
MS Percent Recovery	101%	98%	90%	98%	99%	97%	101%		93%	96%	95%	102%	92%
MSD Percent Recovery	100%	96%	92%	101%	95%	92%	100%		86%	94%	96%	103%	90%
MS/MSD RPD	1	1	2	3	3	3	1		3	2	1	1	2

<sup>\*</sup>Report Limit is lowest concentration at which quantitation is demonstrated. Values below report limit should not be used for compliance determination due to a high degree of uncertainty.

Validated By:

Date: 7/16/13

			4	
age_	-	_ of _	T	_

HRS	D	CENTRAL 1432 AIR RA VIRGINIA BE	JL AVENU	E	AL LABO	RATORY		<u>.</u>						CHAIN OF CUSTODY										
	A COLUMN	TEL: 757-460 FAX: 767-460										A	NALYSE	S REQI	JESTED	, CGN 8	NUMBI	R OF C	ONTAIN	IERS				
PROJECT NAME/CO	ODE: WVW		u-0300					(5)															Project i Yes _ No _	
	P		_					Total Metals											ł		1			
	HRSD	Use Only		i.		Circle One	Circle One	Lotal Total															HRSD U	Ise Only
CUSTOMER SAMPLE ID	PROJECT CODE	SAMPLE POINT	DATE	TIME	SAMPLED BY	MATRIX	SAMPLE TYPE	fu A								A NO.						4	Presy'd Checked	CONT.
Field Black	YAYAYA	FR	હા/સપાક-લ	(12M) (12		Ł	С	,																
Effluent	WWW	FNE	Į.	L.	,	L	c	,																
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comments:	ierec	l via	1B	ene	× 19	-GH	9/ 6	0/20	7/3		·									<u> </u>	For Gre Tempt Tempt	und.Wi Jankit Blankiz	ner(Use O	nlys : ;
		<b>有利性的</b>	<b>动元 李雅</b>		220		24.3	Ter	np. Re	quiren	nent							*Pres	ervativ	es			•	
Relinquished by / Signal	ura Ting	( white me	un		Date/Time				se require		-111-4		'Hg, Met	els (pH<;	· HNO3	(Clean n	netals che	ck in sec	tion)					<del></del>
Received by / Signature	74	6 Rus	74.		Date/Time (	0/27/1	<u> 3 /3:35</u>		ies Mete				108G (p	H<2 - HC	l, check i	1 section)	8 store s	6°C						
Relinquished by / Signal		1/			Date/Time	4	1		rs mainta	ined at	≤ 6 °C.		CN (pH>12 - NaOH) & store ≤ 6 °C											
Received by / Signature		son the	<del>-</del>		Date/Time	C/98,	<u>/13 (0</u>	μO								Ac) & stor							<u> </u>	
Relinquished by / Signat	ure /				Oate/Time	1 1		Ye	<u></u> _	No	_					> erola	10°C							
Received by / Signature					Date/Time					1.1	1		-	UT, Phor					<del></del>		(pH<2 - )	H,SO,) &	store < 6 °C	<u>}</u>
Refinquished by / Signature DaterTime					l	Int_G	#!!	,					4e ≤ 6 °C											
Received by / Signature	- B- 6- 6		14 M - 14 2		Date/Time			10000000									ani, Sulfa							
		SESSEE S	C. C. C. C.		Table Cont				2000			****					ganics str nota & (,			-				
All sample(s) met proper "preservetion requirements. Yes No					_	Int	4/1			Oz (V\$)	(htt 8.9	- 3.1 - (1	11147230	e, a sion	, 200									
Samela Time: C-Comm				*****	11. 42. 5			0000		. 0	<b>61</b>		L											

Sample Type: C=Composite, G=Grab Matrix: L= Liquid , S = Solid NOTE: ALL APPLICABLE INFORMATION MUST BE COMPLETED PRIOR TO ACCEPTANCE.



### Improving the environment, one client at a time...

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500

Website: www.reiclabs.com

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276

101 17th Street Ashland, KY 41101 TEL: 606.393.5027

1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.248.0183

16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Thursday, August 08, 2013

Ms. Janis Richardson WESTERN VA WATER WWTP 1502 BROWNLEE AV SE ROANOKE, VA 24014

TEL:

(540) 853-1517

FAX:

(540) 853-1307

RE: 001 GRABS AND COMP

Work Order #: 1307S63

Dear Ms. Janis Richardson:

REI Consultants, Inc. received 5 sample(s) on 7/29/2013 for the analyses presented in the following report. Sincerely.

Joy Castle

Project Manager



### **REI Consultants, Inc. - Case Narrative**

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

### **DEFINITIONS:**

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

### QUALIFIERS:

- \*: Reported value exceeds required MCL
- B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
- E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.
- H: Holding time for preparation or analysis has been exceeded.
- J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
- S: % REC (% recovery) exceeds control limits

### CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151 Ashland, KY: KYDEP 00094, WV 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-01A

Client Sample ID:

001 GRAB 1

Collection Date:

7/29/2013 12:30:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual Units	Date Analyzed
Field Parameters	Analyst:					
FieldSampler	MV			, NA		•
OIL and GREASE		Metho	Analyst: JJ			
Oil & Grease	ND	2.0	5.0	NA	mg/L	7/30/2013 8:30 AM

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-02A

Client Sample ID:

001 GRAB 2

**Collection Date:** 

7/29/2013 12:45:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual Units	Date Analyzed					
Field Parameters		Method: FLD									
FieldSampler	MV			NA							
OIL and GREASE		Metho	d: EPA1	664A		Analyst: JJ					
Oil & Grease	ND	2.0	5.0	NA	mg/L	7/30/2013 8:30 AM					

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

001 GRAB 3

Client Sample ID:

1307S63-03A

Date Received:

7/29/2013 1:00:00 PM

**Collection Date:** 

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed				
Field Parameters	· ·	Metho	d: FLD				Analyst:				
FieldSampler	MV			NA		S.	•				
OIL and GREASE		Method: EPA1664A									
Oil & Grease	ND	2.0	5.0	NA		mg/L	7/30/2013 8:30 AM				

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-04A

Client Sample ID:

001 GRAB 4

Collection Date:

7/29/2013 1:15:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD				Analyst:
FieldSampler	MV			NA			
ACROLEIN BY E624		Metho	d: E624				Analyst: RB
Acrolein	ND	5.0	10	NA		μg/L	7/30/2013 5:14 PM
VOLATILE ORGANIC COMPOUNDS		Metho	d: E624				Analyst: RB
Benzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Bromodichloromethane	4.5	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Bromoform	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Bromomethane	ND	0.5	1.0	NA		µg/L	7/30/2013 5:14 PM
Carbon tetrachloride	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Chlorobenzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Chloroethane	ND	0.5	1.0	NA		µg/L	7/30/2013 5:14 PM
Chloreform	11,9	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Chloromethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Dibromochloromethane	ND	0.5	1.0	NA'		μg/L	7/30/2013 5:14 PM
1,2-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,3-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,4-Dichlorobenzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,1-Dichloroethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,2-Dichloroethane	ND	0.5	1.0	NA		μq/L	7/30/2013 5:14 PM
1,1-Dichloroethene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
trans-1,2-Dichloroethene	ND	0.5	1.0	NA		μ <u>α</u> /L	7/30/2013 5:14 PM
1,2-Dichloropropane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
cis-1,3-Dichloropropene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
trans-1,3-Dichloropropene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Ethylbenzene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Methylene chloride	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,1,2,2-Tetrachloroethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Tetrachloroethene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Toluene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,1,1-Trichloroethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
1,1,2-Trichloroethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Trichloroethene	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Trichlorofluoromethane	ND	0.5	1.0	NA		μg/L	7/30/2013 5:14 PM
Vinyl chloride	ND	0.5	1.0	NA		µg/L	7/30/2013 5:14 PM
Surr: 1,2-Dichloroethane-d4	98.3	NA	73.2-133	NA		%REC	7/30/2013 5:14 PM
Surr: Toluene-d8	100	NA	71-132	NA		%REC	7/30/2013 5:14 PM
Surr: 4-Bromofluorobenzene	99.9	NA	74.2-129	NA		%REC	7/30/2013 5:14 PM

WO#: 1307S63

Analyst: AL

7/31/2013 11:39 AM

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

Cyanide

Cyanide, Total

1307S63-04A

Client Sample ID:

001 GRAB 4

**Collection Date:** 

7/29/2013 1:15:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
<b>VOLATILE ORGANIC COMPOUNDS-624</b>		Metho	d: E624				Analyst: RB
2-Chloroethyl vinyl ether	ND	2.5	5.0	NΑ		μg/L	7/30/2013 5:14 PM
Acrylonitrile	ND	5.0	10	NA		μg/L	7/30/2013 5:14 PM
4-Methyl-2-pentanone	ND	5.0	10	NA		μq/L	7/30/2013 5:14 PM
Surr: 1,2-Dichloroethane-d4	98.3	NA	73.2-133	NA		%REC	7/30/2013 5:14 PM
Surr: Toluene-d8	100	NA	71-132	NA		%REC	7/30/2013 5:14 PM
Surr: 4-Bromofluorobenzene	99.9	NA	74.2-129	NA		%REC	7/30/2013 5:14 PM
OIL and GREASE		Metho	d: EPA16	64A			Analyst: JJ
Oil & Grease	ND	2.0	5.0	NA		mg/L	7/30/2013 8:30 AM
PHENOLICS		Metho	d: <b>E420.1</b>			•	Analyst: BA
Phenolics	• ND	0.005	0.010	NA		mg/L	7/31/2013 11:00 AM

Method: E335.4

0.020

NΑ

mg/L

ND

0.005

WO#: 1307S63

8/8/2013 6:34 AM

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WMTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-05A

Client Sample (D:

001 COMP

Collection Date:

7/30/2013 12:30:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Client Sample ID: 001 COMP			Si	te ID:			
Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Field Parameters		Metho	d: FLD				Analyst:
FieldSampler	MV			NA			
PESTICIDES/PCBS		Metho	d: E608		SW3	510B	Analyst: NC
Araclor 1016	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
Aroclor 1221	ND	0.000200	0.000499	NA		mg/L	8/8/2013 6:34 AM
Araclor 1232	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
Aroclor 1242	ND.	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
Araclor 1248	ND	0.000100	0.000499	NA.		mg/L	8/8/2013 6:34 AM
Aroclor 1254	ŇD	0.000137	0.000499	NA		mg/L	8/8/2013 6:34 AM
Aroclor 1260	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
Aldrin	ND	0.000120	0.000499	NA		mg/L	8/8/2013 6:34 AM
alpha-BHC	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
beta-BHC	ND	0.000090	0.000499	NA		mg/L	8/8/2013 6:34 AM
delta-BHC	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
gamma-BHC	ND	0.000110	0.000499	NA		mg/L	8/8/2013 6:34 AM
Chlordane	ND	0.000479	0.00499	NA		mg/L	8/8/2013 6:34 AM
<b>4,4</b> ′-DDD	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
4,4´-DDE	ND	0.000100	0.000499	NA		mg/L	8/8/2013 6:34 AM
4,4′-DDT	ND	0.000110	0.000499	NA		ma/L	8/8/2013 6:34 AM

ND 0.000100

ND 0.000100

ND 0.000100

ND 0.000100

ND

ND

ND

41.5

87.5

0.000100

0.000100

0.000100

0.000080

0.000569

NA

NA

0.000499

0.000499

0.000499

0.000499

0.000499

0.000499

0.000499

0.000499

0.00499

5.3-110

19.49-150

NA

mg/L

mg/L

mg/L

mg/L

ma/L

mg/L

mg/L

mg/L

mq/L

%REC

%REC

Dieldrin

Endrin

Endosulfan I

Endosulfan II

Endosulfan sulfate

Endrin aldehyde

Heptachlor epoxide

Surr: decachlorobiphenyl

Surr: tetrachloro-m-xylene

Heptachlor.

Toxaphene

The associated batch matrix spike exceeds REIC control limits.

SEMIVOLATILE ORGANIC COMPOUNDS		Metho	d: E625		SW3510	Analyst: JD
Acenaphthene	ND	0.0023	0.0116	NA	mg/L	8/6/2013 8:34 PM
Acenaphthylene	ND	0.0023	0.0116	NA	mg/L	8/6/2013 8:34 PM
Anthracene	ND	0.0023	0.0116	NA	mg/L	8/6/2013 8:34 PM
Benzidine	ND	0.0023	0.0116	NA	mq/L	8/6/2013 8:34 PM
Benzo(a)anthracene	ND	0.0023	0.0116	NA	ma/L	8/6/2013 8:34 PM
Benzo(a)pyrene	ND	0.0023	0.0116	NA	mg/L	8/6/2013 8:34 PM

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-05A

Client Sample ID:

001 COMP

**Collection Date:** 

7/30/2013 12:30:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
Benzo(b)fluoranthene	ND	0.0023	0.0116	NA	****	mg/L	8/6/2013 8:34 PM
Benzo(g,h,i)perylene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Benzo(k)fluoranthene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Bis(2-chloroethoxy)methane	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Bis(2-chloroethyl)ether	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Bis(2-chloraisopropyl)ether	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Bis(2-ethylhexyl)phthalate	ND	0.0070	0.0116	NA		mg/L	8/6/2013 8:34 PM
4-Bromophenyl phenyl ether	ND	.0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Butyl benzyl phthalate	ND	0.0058	0.0116	NA		mg/L	8/6/2013 8:34 PM
4-Chloro-3-methylphenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2-Chloronaphthalene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2-Chlorophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
4-Chlorophenyl phenyl ether	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Chrysene	ND	0.0023	0.0116	NA		mq/L	8/6/2013 8:34 PM
Dibenzo(a,h)anthracene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Di-n-butyl phthalate	ND	0.0035	0.0116	NA		mg/L	8/6/2013 8:34 PM
3,3'-Dichlorobenzidine	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2,4-Dichlorophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Diethyl phthalate	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Dimethyl phthalate	. ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2,4-Dimethylphenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
4,6-Dinitro-2-methylphenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2,4-Dinitrophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2,4-Dinitrotoluene	ND	0.0023	0.0116	NA		mg/L	/ 8/6/2013 8:34 PM
2,6-Dinitrotoluene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Di-n-octyl phthalate	ND	0.0058	0.0116	NA		mg/L	8/6/2013 8:34 PM
1,2-Diphenylhydrazine	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Fluoranthene	ND	0.0023	0.0116	NΑ	÷	mg/L	8/6/2013 8:34 PM
Fluorene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Hexachlorobenzene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Hexachlorobutadiene	. ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Hexachlorocyclopentadiene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Hexachloroethane	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Indeno(1,2,3-cd)pyrene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Isophorone	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Naphthalene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Nitrobenzene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2-Nitrophenol	<b>N</b> D	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
4-Nitrophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
N-Nitrosodimethylamine	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
N-Nitrosodiphenylamine	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM

WO#: 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Lab ID:

1307S63-05A

Client Sample ID:

001 COMP

**Collection Date:** 

7/30/2013 12:30:00 PM

Date Received:

7/29/2013

Matrix:

Waste Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
N-Nitrosodi-n-propylamine	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Pentachlorophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Phenanthrene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Phenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Pyrene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
1,2,4-Trichlorobenzene	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
2,4,6-Trichlorophenol	ND	0.0023	0.0116	NA		mg/L	8/6/2013 8:34 PM
Surr: 2-Fluorophenol	56.2	NA	25.9-110	NA		%REC	8/6/2013 8:34 PM
Surr: Phenol-d5	41.5	NA	8.2-110	NA		%REC	8/6/2013 8:34 PM
Surr: 2,4,6-Tribromophenol	87.4	NA	61.7-110	NA		%REC	8/6/2013 8:34 PM
Surr: Nitrobenzene-d5	89.4	NA	62.2-110	NA		%REC	8/6/2013 8:34 PM
Surr: 2-Fluorobiphenyl	82.6	NA	54.6-110	NA		%REC	8/6/2013 8:34 PM
Surr: 4-Terphenyl-d14	73.8	NA	10.7-110	NA		%REC	8/6/2013 8:34 PM
ANIONS by ION CHROMATOGRAPHY		Metho	d: E300.0				Analyst: CF
Nitrogen, Nitrate	9.00	0.20	1.00	NA		mg/L	7/31/2013 12:58 PM
Nitrogen, Nitrite	ND	0.05	0.50	NA		mg/L	7/31/2013 12:58 PM
AMMONIA NITROGEN		Metho	d: EPA35	0.1			Analyst: AL
Nitrogen, Ammonia (As N)	ND	0.04	0.10	NA		mg/L	7/31/2013 2:32 PM
TOTAL DISSOLVED SOLIDS		Metho	d: SM254	0 C			Analyst: SF
Total Dissolved Solids	346	5	10	500		mg/L	8/1/2013 2:14 PM

CHAIN OF CUSTODY RECO	ORD
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IMIT OF COS	EUDI NE		- 3-000	WVWA								PO 9
		Co	ntact Person	<u> </u>	<u></u>	) ch	-d	So A				Phone 610) 853-1517
		QL	JOTE#	<del></del>				F	ax:			Email:
		Ad	dress				helian turne		d.		īty	State Zip
	establicamente de la		ling Address (If o	different)								
esearch Environmental & Indu AIN LABORATORY & CORPO					City,							StateZlp
P.O. Box 286 • 225 Industrial Pa 800-999-0105 - 304-255-2500	rk.Rd, Beaver WV 2581	_	e ID & State				2.24					Sampler Matt Vcss
rvice Center Servic 1 17th Street 1557 Comme land, KY 41101 Verona,	rce Rd., Ste 201 - 3029 VA 24482	ROANOKE Service Center I-C Peters Creek Rd Janoke, VA 24019 540-777-1276	MORGANTO Service Cen 16 Commerce Westover, WV 2 304-241-58	Drive C			77	) ( (t	<u>42</u>	о:1 Д)		
SAMPLE LO	DG & ANALY	SIS REQUES	7	ET #5			7					dies
TURNAROUND TIME  NORMAL  'Rush work needs prior	S DAY	SH TURNAROUND 3 DAY 7.2 DAY nd will incur additional	1 DAY	ANALYSIS & M			- 24			)		
SAMPLEID	No. & Type of Containers	Sampling Date/Time	Matrix	Semple Comp/Grab		9,	١,	5 3	<u>,                                    </u>		1	LENTER PRESERVATIVE CODE:  0 None 5 Sadium Hýdroxide
Grab 1	2000	7-29-13/1270	ww	Cmb	×	ĸ	x ;	χУ				1 Hydrochloric Acid 6 Zinc Acetate 2 Nitric Acid 7 EDTA
Grab 2	As a description	7-29-13/ 12:45		1	×	x	(	×X		Π		3 Sulfuric Acid 8 Ascorbic Acid
Gray 3	i-	7-29-13/ 160			×	X	,	K X		11		4 Sodium Thiosulfate
GMb 4	i l	7-29-13/1-		1	ķ	×	к ,	r X				COMMENTS:
			1				-	-	-			
					-			- -	+-	++		
				<u> </u>	+-				-	<del>                                     </del>		
4			+			$\vdash \vdash$		_	-	+		
	-		<u> </u>	<u> </u>		<u> </u>						
vical requests are subject to R	EIC's Standard Terms a	and Conditions.	Temperatu	re at arrival	: 1.6	<u>)</u> c	ICE	<u> </u>	<u> </u>		N	Gontainers provided by: [J-REIC [ ]*Clies
active by isografie	7-29-13 Sweether 14-30	Selb-quistero zy (espran			inje/itre		Ί	FA	LX RE	SULTS		EMAIL RESULTS
withhim	729-13 1012-101	Received by (upic) ure)		r	DurMeri	2		>P-PW	N7	H.	ari Celia	internalCoursesLIPSFEDEXLISSSDX
												COC-NCR-0



405853 CHAIN OF CUSTODY RECORD WYWA Contact Person Land Thehandson Phone (540) 853-1517 Billing Address (if different) Research Environmental & Industrial Consultants, Inc. MAIN LABORATORY & CORPORATE HEADQUARTERS: P.O. Box 286 · 225 Industrial Park Rd, Beaver, WV 25813 Site ID & State ... 800-999-0105 · 304-255-2500 · www.reiclabs.com MID-OHIO VALLEY SHENANDOAH ROANOKE MORGANTOWN Service Center Service Center Service Center Service Center 101 17th Street 1557 Commerce Rd., Ste 201 3029-C Peters Creek Rd 16 Commerce Drive Ashland, KY 41101 Verona, VA 24482 Roanoke, VA 24019 Westover, WV 26501 606-393-5027 540-248-0183 540-777-1276 304-241-5861 **SAMPLE LOG & ANALYSIS REQUEST** TURNAROUND TIME RUSH TURNAROUND NORMAL ANALYSIS 5 DAY 3 DAY 2 DAY \*Rush work needs prior laboratory approval and will incur additional charges No: 5 Type of SAMPLEID **ENTER PRESERVATIVE CODE:** Sampling Date/Time Matrix 0 Containers Comp/Grab :0 None 5 Sodium Hydroxide 7-30-13/1250 1 Hydrochloric Acid 6 Zinc Acetate COI COMP .2 Nitric Acid 7 EDTA 3 Sulfuric Acid 8 Ascorbic Acid 4 Sodium Thiosulfate COMMENTS: All analytical requests are subject to REIC's Standard Terms and Conditions. Temperature at arrival: / O C ICED? Containers provided by: [ REIC [ ] Client 7-30-0/ FAX RESULTS EMAIL RESULTS Three/Time/ 15% He repulsion by Supercord Date:Tune 7-30-13 SHEWSHI \_\_ HORR DRIVONS \_\_ COUGH \_\_ UPS \_\_ FELEX \_\_ USPS \_\_ DIFFER Desertions FIHO Date: Term COC-NCR-050213



1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

1664\_HEM

Sample ID:	LCS-R308567	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	308567	
Client ID:	LCSW	Batch ID:	R308567	•	TestNo:	EPA1664A			Analysis	Date:	<b>7/30/2013</b> Se	qNo:	4609682	-
Analyte			Result	PQL	SPK value	SPK Ref Va	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease			36.0	5.0	40.0	(	)	90.0	77.9	114.1				
Sample ID:	R308567LCSD	Samp Type:	LCSD		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	308567	
Client ID:	LCSS02	Batch ID:	R308567	,	TestNo:	EPA1664A			Analysis	Date:	7/30/2013 Se	qNo:	4609683	
Analyte			Result	PQL	SPK value	SPK Ref Va	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease		<del>-</del>	35.4	5.0	40.0		)	88.5	77.9	114.1	36.0	1.7	20	
Sample ID;	MB-R308567	Samp Type:	MBLK	,	Test Code:	1664_HEM	Units:	mg/L	Prep Date	e:	Ru	nNo:	308567	
Client ID:	PBW	Batch ID:	R308567		TestNo:	EPA1664A			Analysis	Date:	7/30/2013 Sec	aNo:	4609684	
Analyte			Result	PQL	SPK value	SPK Ref Va	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Oil & Grease	···		ND	5.0										

w 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

608\_L

Sample ID:	mb-45242	Samp Type:	mblk		Test Code:	608_L	Units:	mg/L	Prep Dat	le:	8/6/2013 Ru	nNo:	309141	
Client ID:	PBW	Batch ID:	45242		TestNo:	E608	SW351	0B	Analysis	Date:	8/8/2013 Se	qNo:	4621130	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016			ND	0.000500		· ·								
Aroclor 1221			ND	0.000500										
Aroclor 1232			ND	0.000500		•	•							-
Aroclor 1242			ND	0.000500										
Aroclor 1248			ND	0.000500										
Aroclor 1254			ND	0.000500										
Aroclor 1260	•		ND	0.000500							•			
Aldrin			ND	0.000500							•			
alpha-BHC			, ND	0.000500							•			
beta-BHC			ND	0.000500										
delta-BHC			ND	0.000500									•	
gamma-BHC			ND	0.000500										
Chlordane			ND	0.00500										
4,4 -DDD			ND	0.000500										
4,4´-DDE			ND	0.000500										
4,4´-DDT			ND	0.000500										
Dieldrin			ND	0.000500						•				
Endosulfan i			ND	0.000500										
Endosulfan II			ND	0.000500									•	
Endosulfan su	lfate		ND	0.000500									•	•
Endrin			ND	0.000500									<b>%</b>	
Endrin aldehyd	de		ND	0.000500										
Heptachlor			ND	0.000500										
Heptachlor epo	oxide		ND	0.000500										
Toxaphene	•		ND	0.00500										
Surr: tetrach	nloro-m-xylene	0.6	00155		0.002000			77.5	19.49	150				

6

W

1307563

Date Reported: 8/8/2013

Client:

**WESTERN VA WATER WWTP** 

Project:

001 GRABS AND COMP

Test Code:

Sample ID:	LCS-PCB-45242	Samp Type:	lcs		Test Code:	608_L	Units:	mg/L	Prep Dat	e:	<b>8/6/2013</b> Ru	nNo:	o: <b>309141</b>	
Client ID:	LCSW	Batch ID:	45242		TestNo:	E608	SW35	10B	Analysis	Date:	8/8/2013 Se	qNo:	4621131	
Analyte			Result	PQL	SPK value	SPK Ref Va	al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclar 1016		0	.00352	0.000500	0.005000	(	0	70.4	50	114				
Aroclar 1260		0	.00367	0.000500	0.005000	(	0	73.4	8	127			•	
Surr: tetrac	chloro-m-xylene		.00165	<u> </u>	0.002000			82.5	22.1	149	-			
Sample ID:	LCS-PEST-45242	Samp Type:	lcs´		Test Code:	608_L	Units:	mg/L	Prep Dat	e:	8/6/2013 Rui	nNo:	309141	
Client ID:	LCSW	Batch ID:	45242		TestNo:	E608	SW35	10B	Analysis	Date:	8/8/2013 Sec	ηNo:	4621132	
Analyte			Result	PQL	SPK value	SPK Ref Va	ni	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aldrin		0	.00206	0.000500	0.002500	(	D	82.4	42	122				
alpha-BHC		0	.00210	0.000500	0.002500	(	Ö	84.0	37	134				
beta-BHC		0	.00211	0.000500	0.002500	(	)	84.4	17	147				
delta-BHC		0	.00206	0.000500	.0.002500	(	C	82.4	19	140				
gamma-BHC		0	.00210	0.000500	0.002500	(	)	84.0	32	127				
4,4'-DDD		. 0	.00211	0.000500	0.002500	{	)	84.4	31	141				
4,4′-DDE		0	.00207	0.000500	0.002500	(	)	82.8	30	145				
4,4'-DDT		0	.00203	0.000500	0.002500	(	<b>D</b> .	81.2	25	160				
Dieldrin		0	.00213	0.000500	0.002500	(	כ	85.2	36	146				
Endosulfan I		0	.00213	0.000500	0.002500	(	כ	85.2	45	153			~	
Endosulfan II		0	.00214	0.000500	0.002500	. (	)	85.6	0	202				
Endosulfan sı	ulfate	0	.00213	0.000500	0.002500	(	)	85.2	26	144	•			
Endrin		0	.00218	0.000500	0.002500	(	)	87.2	30	147				
Endrin aldehy	rde	0	.00234	0.000500	0.002500	(	)	93.6	30	147				
Heptachlor		0	.00211	0.000500	0.002500	(	)	84.4	27	116			•	
Heptachlor ep	ooxide	. 0	.00215	0.000500	0.002500	(	)	86.0	37	142				
Surr: tetrac	hloro-m-xylene	0	.00172		0.002000			86.0	22.1	149				



Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

624\_ACROLEIN

Sample ID:	8260/624 LCS	Samp Type:	LCS	-	Test Code:	624_ACROL Ur	its: µg/L	Prep Da	te:	Ru	πNo:	308665	
Client ID:	LCSW	Batch ID:	R308665	7	TestNo:	E624		Analysis	Date:	<b>7/30/2013</b> Se	qNo:	4611663	
Analyte	-		Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acrolein			110	10	100.0	0	115	70	130				
Sample ID:	BLANK	Samp Type:	MBLK	T	rest Code:	624_ACROL Ur	its: µg/L	Prep Dat	e:	Ru	nNo:	308665	
Client ID:	PBW	Batch ID:	R308665	, 1	ΓestNo:	E624		Analysis	Date:	7/30/2013 Se	qNo:	4611664	
Analyte			Result	PQL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acralein -			ND	10									



Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID:	8260/624 LCS	Samp Type:	LCS	•	Fest Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	308665	
Client ID:	LCSW	Batch ID:	R308665	-	ΓestNo:	E624			Analysis	Date:	7/30/2013 Sec	qNo:	4611615	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			10.6	1.0	10	0		106	77	150				
Bromodichlor	omethane		10.7	1.0	_ 10	0		107	17	157				
Bromoform	•		7.5	1.0	10	0		74.8	22	- 157				
Bromomethar	пе		8.0	1.0	10	0		79.5	0	242				
Carbon tetrac	hloride		10	1.0	10	0		99.5	59	127				
Chlorobenzen	ne		11.2	1.0	10	0		112	91	151				
Chloroethane			8.6	1.0	10	0		86.5	0	258				
Chloroform			10.2	1.0	10	0		102	50	153				
Chloromethar	ne		7.4	1.0	10	0		74.4	0	279				
Dibromochlor	omethane		9.6	1.0	- 10	0		96.5	47	154				
1,2-Dichlorob	enzene		11.2	1.0	10	0		112	67	211				
1,3-Dichlorob	enzene		11.0	1.0	10	0		110	89	157				
1,4-Dichlorobe	enzene		10.1	1.0	10	0		101	67	211				
1,1-Dichloroet	thane		14.6	1.0	10	0		146	55	163				
1.2-Dichloroet	thane		10.9	1.0	10	0		109	· 61	152				
1,1-Dichloroet	thene		11.4	1.0	10	0		114	0	237		•		
trans-1,2-Dich	nloroethene		11.2	1.0	10	0		112	52	158	,			
1,2-Dichloropi	ropane		9.9	1.0	10	0		98.6	0	210				
cis-1.3-Dichlo	ropropene		7.1	1.0	10	0		70.7	0	227				
trans-1,3-Dich	loropropene		7.4	1.0	10	. 0		74.4	17	183				
Ethylbenzene			10.6	1.0	10	0		106	87	159		•		
Methylene chi	loride		9.7	1.0	10	0		97.4	0	286		•		
1,1,2,2-Tetrac	chloroethane		9.3	1.0	10	0		93.0	47	175				,
Fetrachloroeth	hene		9.5	1.0	10	0		95.4	79	145				
Toluene			10.4	1.0	10	0		104	79	145				
1,1,1-Trichlord	oethane		10.5	1.0	10	0		105	65	162				
1,1,2-Trichlord	ethane		9.7	1.0	10	0		97.0	63	161				
Trichloroether	ne		10	1.0	10	0		99.9	75	178				-
Frichlorofluoro	methane		9.7-	1.0	10	0		96.8	27	179				
/inyl chloride			7.7	1.0	10	0		76.7	0	259				



Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

											***			
Sample ID:	8260/624 LCS	Samp Type:	LCS	-	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	308665	•
Client ID:	LCSW	Batch ID:	R308665	-	TestNo:	E624			Analysis	Date:	7/30/2013 Se	qNo:	4611615	
Analyte			Result	PQL	SPK valu	e SPK Ref \	/al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Surr: Dibro	mofluoromethane		9.9		<u>, 1</u>	0		99.2	65.5	133				_
Surr: 1,2-D	ichloroethane-d4		10.7		1	0		107	74	140				
Surr: Tolue	ene-d8		9.9		1	0		98.7	71.1	126				
Surr: 4-Bro	mofluorobenzene		10.1		1	0		101	75.9	129				
Sample ID:	BLANK	Samp Type:	MBLK	-	Test Code:	624_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	308665	
Client ID:	PBW	Batch ID:	R308665	-	TestNo:	E624			Analysis	Date:	7/30/2013 Se	qNo: ^	4611616	
Analyte			Result	PQL	SPK valu	e SPK Ref \	/al	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Benzene			ND	1.0							·			
Bromodichlor	omethane		ND	1.0										
Bromoform			ND	1.0										
Bromomethar	ne		ND	1.0										
Carbon tetrac	chloride		ND	1.0							:	•		
Chlorobenzer	ne		ND	1.0										
Chloroethane	•		ND	1.0										
Chloroform			ND .	1.0							4			
Chloromethar	ne		ND	1.0										
Dibromochlor	omethane		ND	1.0										
1,2-Dichlorob	enzene		ND .	1.0										
1,3-Dichlorob	enzene		ND .	1.0								•		
1,4-Dichlorob	enzene		ND	1.0										
1,1-Dichloroe	thane		ND	1.0								•		
1,2-Dichloroet	thane		ND	1.0						•				
1,1-Dichloroet	thene		ND	1.0										
trans-1,2-Dich	nloroethene		ND	1.0										
1,2-Dichlorop	ropane		ND	1.0								•		
cis-1,3-Dichlo	ropropene		ND	1.0										
rans-1,3-Dich	nloropropene		ND	1.0				,						
Ethylbenzene			ND	1.0										
Methylene chl	loride		ND	1.0							•			

W 1307

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID:	BLANK	Samp Type:	MBLK	-	Test Code:	624_L	Units:	μg/L	Prep Date	e:	Ru	nNo:	308665	
Client ID:	PBW	Batch ID:	R308665	-	TestNo:	E624			Analysis	Date:	7/30/2013 Se	qNo:	4611616	
Analyte			Result	PQL	SPK value	SPK Ref Val	ı	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1,2,2-Tetracl	nloroethane		ND	1.0										
Tetrachloroeth	ene		ND	1.0								•		
Toluene			ND	1.0						-				
1,1,1-Trichloro	ethane		ND	1.0										
1,1,2-Trichloro	ethane <sup>*</sup>		ND	1.0										
Trichloroethen	е		ND	1.0			•							•
Trichlorofluoro	methane		ND	1.0										
Vinyl chloride			ND	1.0										
Surr: Dibron	nofluoromethane		9.5		10			95.1	70.8	128				
Surr: 1,2-Did	chloroethane-d4		10.1		10			101	73.2	133				
Surr: Toluen	ie-d8		10		10			100	71	132				•
Surr: 4-Bron	nofluorobenzene		9.8		10			98.0	74.2	129				

w.

1307563

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID:	8260/624 LCS	Samp Type:	LCS	-	Test Code:	624_SUP_L	Units:	μg/L	Prep Dat	e:	Ru	nNo:	308665	
Client ID:	LCSW	Batch ID:	R308665	-	TestNo:	E624			Analysis	Date:	7/30/2013 Sec	ηNo:	4611650	
Analyte			Result	PQL	SPK value	SPK Ref Va	ıl	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	yl vinyl ether		57.4	5.0	50.0		0	115	70	130				
Acrylonitrile			140	10	100	(	כ	140	70	130				s
4-Methyl-2-p	entanone		117	10	100	(	כ	117	70	130				
Surr: 1,2-	Dichloroethane-d4		10.7		10			107	76	114				
Surr: Tolu	iene-d8		9.9		10			98.7	88	110				
Surr: 4-Br	omofluorobenzene		10.1		10			101	86	.115				
Sample ID:	BLANK	Samp Type:	MBLK	7	Test Code:	624_SUP_L	Units:	μg/L	Prep Dat	e:	Rui	nNo:	308665	
Client ID:	PBW	Batch ID:	R308665	٦	TestNo:	E624			Analysis	Date:	7/30/2013 Sec	No:	4611652	
Analyte			Result	PQL	SPK value	SPK Ref Va	1	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2-Chloroethy	yl vinyl ether		ND	5.0										
Acrylonitrile			ND	10								•		
4-Methyl-2-p	entanone		ND	10			,							
Surr: 1,2-l	Dichloroethane-d4		10.1		. 10			101	73.2	133		•		
Surr: Tolu	ene-d8		10		10			100	71	132			. •	
Corner 4 De	omofluorobenzene		9.8		10			98.0	74.2	. 129			2	

w.

1307563

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID:	MB-45208	Samp Type:	MBLK		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	e:	8/5/2013 Ru	nNo:	309094	
Client ID:	PBW	Batch ID:	45208		TestNo:	E625	SW35	10	Analysis	Date:	8/6/2013 Se	qNo:	4620148	
Analyte			Result	PQL	SPK value	e SPK Ref Va	l	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Acenaphthen	ie		ND	0.0100						~				
Acenaphthyle	ene		ND	0.0100										
Anthracene			ND	0.0100									•	
Benzidine			ND	0.0100										
Benzo(a)anth	nracene		ND	0.0100										
Benzo(a)pyre	ene		, ND	0.0100									·	
Benzo(b)fluor	ranthene		ND	0.0100										
Benzo(g,h,i)p	erylene		ND	0.0100										
Benzo(k)fluor	ranthene		ND	0.0100										
Bis(2-chloroe	thoxy)methane		ND	0.0100										
Bis(2-chloroe	thyl)ether		ND	0.0100										
Bis(2-chlorois	sopropyl)ether	•	ND ·	0.0100	•									
Bis(2-ethylhe:	xyl)phthalate		ND	0.0100		•								
4-Bromophen	nyl phenyl ether		ND	0.0100						•		•		
Butyl benzyl p	phthalate		ND	0.0100									•	
4-Chloro-3-m	ethylphenol		ND	0.0100										
2-Chloronaph	nthalene	·	ND	0.0100										
2-Chlorophen	101		ND	0.0100					,		~			
4-Chlorophen	yl phenyl ether		ND	0.0100					•		4			
Chrysene	· ·		ND	0.0100										
Dibenzo(a.h)a	anthracene		ND	0.0100										
Di-n-butyl pht	halate		ND	0.0100										•
3,3"-Dichlorob	penzidine		ND	0.0100								,		
2,4-Dichlorop	henol		ND	0.0100										
Diethyl phthal	late		ND	0.0100										
Dimethyl phth	nalate		ND	0.0100										
2,4-Dimethylp	,		ND	0.0100							,			
•	methylphenol		ND	0.0100										
2,4-Dinitrophe			ND	0.0100	•							-		
2, <b>4</b> -Dinitrotolu			ND	0.0100										



1307\$63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID: MB-45208	Samp Type:	MBLK		Test Code:	625_SUP_L	Units:	mg/L	Prep Dat	e:	<b>8/5/2013</b> Ru	nNo:	309094	
Client ID: PBW	Batch ID:	45208		TestNo:	E625	SW35	10	Analysis	Date:	8/6/2013 Se	qNo:	4620148	
Analyte		Result	PQL	SPK value	SPK Ref Val	•	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,6-Dinitrotoluene		ND	0.0100										•
Di-n-octyl phthalate		ND	0.0100										
1,2-Diphenylhydrazine		ND	0.0100										
Fluoranthene		ND	0.0100										
Fluorene		ND	0.0100										•
Hexachlorobenzene		. ND	0.0100										
Hexachlorobutadiene		ND	0.0100										
Hexachlorocyclopentadiene		ND	0.0100										
Hexachloroethane		ND	0.0100										
Indeno(1,2,3-cd)pyrene		ND	0.0100										
Isophorone		ND	0.0100										
Naphthalene		ND	0.0100										
Nitrobenzene	•	ND	0.0100										
2-Nitrophenol		ND	0.0100										
4-Nitrophenol		ND	0.0100										
N-Nitrosodimethylamine		ND	0.0100										
N-Nitrosodiphenylamine		ND	0.0100										
N-Nitrosodi-п-propylamine		ND	0.0100										
Pentachlorophenol		ND	0.0100										
Phenanthrene		ND	0.0100										
Phenol		ND	0.0100										
Pyrene		ND	0.0100										
1,2,4-Trichlorobenzene		ND	0.0100					•					
Surr: 2-Fluorophenol	C	0.0253		0.0500			50.5	32.9	110				
Surr: Phenol-d5	C	3.0182		0.0500			36.4	25.8	110				
Surr: 2,4,6-Tribromophenol	C	0.0403		0.0500			80.7	63.8	110				
Surr: Nitrobenzene-d5	C	0.0411		0.0500			82.1	61.8	110				
Surr: 2-Fluorobiphenyl	C	0.0375		0.0500			75.0	58.6	110				
Surr: 4-Terphenyl-d14	C	0.0406		0.0500	•		81.2	55.1	110			_	

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1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID: L	.CS-45208	Samp Type:	LCS		Test Code:	625_\$UP_L	Units:	mg/L	Prep Dat	e:	<b>8/5/2013</b> Ru	nNo:	309094	
Client ID: L	.csw	Batch ID:	45208	•	TestNo:	E625	SW351	10	Analysis	Date:	8/6/2013 Se	qNo:	4620149	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit '	Qual
Acenaphthene		1	0.0359	0.0100	0.0500		)	71.8	50	143	·	,		
Acenaphthylene		.(	D.0364	0.0100	0.0500	C	)	72.8	36	145				
Anthracene		(	0.0341	0.0100	0.0500	. 0		68.1	31	132				
Benzo(a)anthrac	ene	.(	0.0342 ^	0.0100	0.0500	0	•	68.3	33	141			•	
Benzo(a)pyrene		(	0.0305	0.0100	0.0500	0		61.0	13	166				
Benzo(b)fluorant	thene	(	0.0348	0.0100	0.0500	0		69.6	22	157				
Benzo(g,h,i)peryl	lene	.(	0.0328	0.0100	0.0500	0		65.7	. 0	214				
Benzo(k)fluoranti	thene	(	0.0295	0.0100	0.0500	0		59.0	10	158				
Bis(2-chloroetho	xy)methane	(	0.0346	0.0100	0.0500	0		69.1	28	176				
Bis(2-chloroethyl)	l)ether	(	0.0367	0.0100	0.0500	0		73.3	12	154				
Bis(2-chloroisopr	ropyl)ether	(	0.0369	0.0100	0.0500	0		73.8	33	164				
Bis(2-ethylhexyl)	phthalate	(	0.0364	0.0100	0.0500	0		72.8	7	157				
4-Bromophenyl p	phenyl ether	(	0.0333	0.0100	0.0500	0		66.6	51	126				
Butyl benzyl phth	nalate	(	0.0357	0.0100	0.0500	0		71.5	0	148				
4-Chloro-3-methy	ylphenol	(	0.0363	0.0100	0.0500	0		72.6	18	151				
2-Chloronaphthal	llene	C	0.0334	0.0100	0.0500	0		66.9	59	119				
2-Chlorophenol		C	0.0372	0.0100	0.0500	0		7 <b>4</b> .5	20	137				
4-Chlorophenyl p	ohenyl ether	C	0.0349	0.0100	0.0500	0		69.7	27	157				
Chrysene		C	0.0348	0.0100	0.0500	0	-	69.5	18	164				
Dibenzo(a,h)anth	rracene	C	0.0332	0.0100	0.0500	0		66.3	0	239				
Di-n-butyl phthala	ate .	C	0.0353	0.0100	0.0500	0		70.7	0	121				
3,3'-Dichlorobenz	zidine	C	0.0248	0.0100	0.0500	0		49.6	0	227				
2,4-Dichlorophen	nol	C	0.0379	0.0100	0.0500	0		75.7	36	138	•.			
Diethyl phthalate		C	0.0386	0.0100	0.0500	0		77.2	0	103				
2,4-Dimethylpher	nol	C	0.0340	0.0100	0.0500	0		68.0	31	129				
4,6-Dinitro-2-metl	hylphenol		0.0383	0.0100	0.0500	0		76.6	0	191				
2,4-Dinitrophenol	I	C	0.0385	0.0100	0.0500	0		76.9	. 0	219	•			
2,4-Dinitrotoluene	e <sup>-</sup>		0.0398	0.0100	0.0500	0		79.6	33	132				
2,6-Dinitrotoluene	e		0.0387	0.0100	0.0500	0		77.5	51	146				
Di-n-octyl phthala			0.0363	0.0100	0.0500	0		72.6	1	147				



Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

Sample ID: LCS-45208	Samp Type: LCS		Test Code:	625_\$UP_L	Units:	mg/L	Prep Date	e:	<b>8/5/2013</b> Ru	inNo:	309094	
Client ID: LCSW	Batch ID: 45208	-	TestNo:	E625	SW3510		Analysis	Date:	8/6/2013 Se	qNo:	4620149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%	REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Fluoranthene	0.0345	0.0100	0.0500	. 0	·	69.0	29	137				
Fluorene	0.0361	0.0100	0.0500	0		72.2	59	122				
Hexachlorobenzene	0.0336	0.0100	0.0500	0		67.2	0	152				
Hexachlorobutadiene	0.0275	0.0100	0.0500	0		55.0	23	115				
Hexachtoroethane	0.0284	0.0100	0.0500	0		56.9	38	105				
Indeno(1,2,3-cd)pyrene	0.0319	0.0100	0.0500	0		63.7	0	162				
Isophorone	0.0367	0.0100	0.0500	0		73.4	21	209				•
Naphthalene	0.0288	0.0100	0.0500	0		57.6	25	134				
Nitrobenzene	0.0353	0.0100	0.0500	0		70.5	34	172				
2-Nitrophenol	0.0387	0.0100	0.0500	. 0		77.3	23	186				
4-Nitrophenol	0.0184	0.0100	0.0500	0		36.7	0	137				
N-Nitrosodi-n-propylamine	0.0372	0.0100	0.0500	0		74.4	0	209				
Pentachlorophenol	0.0354	0.0100	0.0500	0		70. <del>9</del>	5	189				
Phenanthrene	0.0336	0.0100	0.0500	0		67.1	5	120				
Phenol	0.0174	0.0100	0.0500	0		34.8	4	87				
Pyrene	0.0352	0.0100	0.0500	0		70.3	52	116				
1,2,4-Trichlorobenzene	0.0310	0.0100	0.0500	0		61.9	43	142				
Surr: 2-Fluorophenol	0.0257		0.0500			51.4	32.9	110				
Surr: Phenol-d5	0.0195		0.0500			39.0	25.8	110				
Surr: 2,4,6-Tribromophenol	0.0407		0.0500			81.4	63.8	110				
Surr: Nitrobenzene-d5	0.0419		0.0500			83.7	61.8	110				
Surr: 2-Fluorobiphenyl	0.0383		0.0500			76.6	58.6	110	,	·		
Surr: 4-Terphenyl-d14	0.0393		0.0500			78.5	55.1	110				



1307563

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

CN\_335.4

							•					1		
Sample ID:	MB-45109	Samp Type:	MBLK		Test Code:	CN_335.4	Units:	mg/L	Prep Dat	e;	7/31/2013 Ru	ınNo:	308653	
Client ID:	PBW	Batch ID:	45109		TestNo:	E335.4			Analysis	Date:	7/31/2013 Se	qNo:	4611327	
Analyte			Result	PQL	SPK value	SPK Ref Va	I	%REC	Low Limit	· High Limit	RPD Ref Value	%RPD	. RPDLimit	Qual
Cyanide, Tot	al		ND	0.020	•									
Sample ID:	LCS-45109	Samp Type:	LCS		Test Code:	CN_335.4	Units:	mg/L	Prep Dat	e:	<b>7/31/2013</b> Ru	ınNo:	308653	
Client ID:	LCSW	Batch ID:	45109		TestNo:	E335.4			Analysis	Date:	7/31/2013 Se	qNo:	4611328	
Analyte			Result	PQL	SPK value	SPK Ref Va	I	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tot	al	*	0.092	0.020	0.100		) '	92.1	89.9	110.1				
Sample ID:	LCSD-45109	Samp Type:	LCS	-	Test Code:	CN_335.4	Units:	mg/L	Prep Dat	e:	<b>7/31/2013</b> Ru	nNo:	308653	
Client ID:	LCSW	Batch ID:	45109	-	TestNo:	E335.4			Analysis	Date:	7/31/2013 Se	qNo:	4611329	
Analyte	<u> </u>		Result	PQL	SPK value	SPK Ref Val	ı	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Cyanide, Tot	al		0.099	0.020	0.100	C	)	98.8	89.9	110.1				

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1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

NH3\_N\_350.1

											·			
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	·Ru	nNo:	308705	
Client ID:	LCSW	Batch ID:	R308705		TestNo:	EPA350.1			Analysis	Date:	<b>7/31/2013</b> Se	qNo:	4612217	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Amr	monia (As N)	-	0.97	0.10	1.00	0	ı	97.3	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	n <b>N</b> o:	308705	
Client ID:	LCSW	Batch ID:	R308705		TestNo:	EPA350.1			Analysis	Date:	<b>7/31/2013</b> Se	qNo:	4612253	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Amr	monia (As N)		1.01	0.10	1.00	0		101	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	n <b>No</b> :	308705	
Client ID:	LCSW	Batch ID:	R308705		TestNo:	EPA350.1			Analysis	Date:	7/31/2013 Se	q <b>N</b> o:	4612260	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Amr	monia (As N)		1.00	0.10	1.00	0		99.5	89.9	110.1				
Sample ID:	LCS	Samp Type:	LCS		Test Code:	NH3_N_350.	Units:	mg/L	Prep Dat	e:	Ru	nNo:	308705	
Client ID:	LCSW	Batch ID:	R308705		TestNo:	EPA350.1			Analysis	Date:	7/31/2013 Se	qNo:	4612264	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Nitrogen, Amn	nonia (As N)		1.00	0.10	1.00	. 0		100	89.9	110.1				



1307\$63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

PHENOLICS\_L

Sample ID:	MB-R308655	Samp Type:			Test Code:	PHENOLICS U	Inits:	mg/L	Prep Dat	e:	Ru	nNo:	308655	
Client ID:	PBW	Batch ID:	R308655		TestNo:	E420.1			Analysis	Date:	<b>7/31/2013</b> Se	qNo:	4611379	
Analyte			Result	PQL	SPK value	SPK Ref Val	q	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			ND	0.010							- "			
Sample ID:	LCS-R308655	Samp Type:	LCS	-	Test Code:	PHENOLICS U	Inits:	mg/L	Prep Dat	e: .	Ru	πNo:	308655	
Client ID:	LCSW	Batch ID:	R308655	-	TestNo:	E420.1			Analysis	Date:	7/31/2013 Se	qNo:	4611380	
Analyte	<u> </u>		Result	PQL	SPK value	SPK Ref Val	q	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Phenolics			0.101	0.010	0.100	0		101	89.9	110.1				

W 1307S63

Date Reported: 8/8/2013

Client:

WESTERN VA WATER WWTP

Project:

001 GRABS AND COMP

Test Code:

SOLIDS\_TDS

Sample ID:	MB-R308788	Samp Type:	MBLK	-	Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat	e:	Ru	ınNo:	308788	
Client ID:	PBW	Batch ID:	R308788	-	TestNo:	SM2540 C			Analysis	Date:	<b>8/1/2013</b> Se	qNo:	4613847	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Dissolv	red Solids		ND	10										
Sample ID:	LCS-R308788	Samp Type:	LCS	-	Test Code:	SOLIDS_TD	Units:	mg/L	Prep Dat	e:	Ru	nNo:	308788	•
Client ID:	LCSW	Batch ID:	R308788		ΓestNo:	SM2540 C			Analysis	Date:	8/1/2013 Se	qNo:	4613848	
Analyte	·		Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Total Dissolv	ed Solids		250	10	250	0		100	89.9	110.1	•			





#### Improving the environment, one client at a time...

3029-C Peters Creek Road Roanoke, VA 24019

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Verona, VA 24482

TEL: 540.248.0183

16 Commerce Drive Westover, WV 26501

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 -TEL: 304.255.2500 Website: www.reiclabs.com

TEL: 304.241.5861

Wednesday, September 25, 2013

Ms. Janis Richardson WESTERN VA WATER WWTP 1502 BROWNLEE AV SE ROANOKE, VA 24014

TEL:

(540) 853-1517

FAX:

(540) 853-1307

RE: SW009-WPCP

Work Order #: 1309N42

Dear Ms. Janis Richardson:

REI Consultants, Inc. received 1 sample(s) on 9/20/2013 for the analyses presented in the following report.

Sincerely,

Joy Castle

Project Manager



### **REI Consultants, Inc. - Case Narrative**

WO#: 1309N42

Date Reported: 9/25/2013

Client:

WESTERN VA WATER WWTP

Project:

SW009-WPCP

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REIC.

#### DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

#### QUALIFIERS:

\*: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate,

S: % REC (% recovery) exceeds control limits

#### CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VFI AP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151 Ashland, KY: KYDEP 00094, WV 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387

WO#: 1309N42

Date Reported: 9/25/2013

Client:

WESTERN VA WATER WWTP

**Collection Date:** 

9/20/2013 9:20:00 AM

Project:

SW009-WPCP

Date Received:

Lab ID:

9/20/2013

Client Sample ID:

1309N42-01A SW009

Matrix:

Surface Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual U	nits	Date Analyzed
OIL and GREASE		Metho	d: EPA1	664A			Analyst: JJ
Oil & Grease	MD	2.0	5.0	A I A			0/24/2042 0:40 AM

WO#: 1309N42

Date Reported: 9/25/2013

Client:

WESTERN VA WATER WWTP

Project:

SW009-WPCP

Test Code:

1664\_HEM

		<del></del>				_ <del>.</del>							· · · · · · · · · · · · · · · · · · ·	
Sample ID:	MB-R312406	Samp Type:	MBLK		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	312406	
Client ID:	PBW	Batch ID:	R312406	•	TestNo:	EPA1664A			Analysis	Date:	9/ <b>24/2013</b> Se	qNo:	4687844	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease			ND	5.0					¥-1400					
Sample ID:	LCS-R312406	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	312406	
Client ID:	LCSW	Batch ID:	R312406		TestNo:	EPA1664A			Analysis	Date:	<b>9/24/2013</b> Se	qNo:	4687845	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease			35.0	5.0	40.0	0		87.5	77.9	114.1				
Sample ID:	R312406LCSD	Samp Type:	LCSD	-	Test Code:	1664_HEM	Units:	mg/L	Prep Dat	<b>e</b> :	Ru	nNo:	312406	
Client ID:	LCSS02	Batch ID:	R312406		TestNo:	EPA1664A			Analysis	Date:	9/24/2013 Se	qNo:	4687846	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease		·	36.3	5.0	40.0	0		90.8	77.9	114.1	35.0	3.6	20	



El Consultants, Inc. 225 Industrial Park Rd. P.O. Box 286, Beaver, W Phone: 304-255-2500 or 1	CLIENT: WWA - Prefrentment ADDRESS: 1502 Bounder Hue SE CITY/STATE/ZIP: Reanoke, VA 2904 BILL TO: CITY/STATE/ZIP:											nis Richardson 1517				
FAX: 304-255-2572 e-mail: rlabs@reiclabs.co	om	QUOT	E#				<del></del>			S	AMP	LEA:			_	
SAMPLE LOG AND ANALYSIS REQUEST	[	3-Da 2-Da 1-Da	0 N 1 H 2 N 3 S 1 4 S 1 5 S	SERVATIVES  To Preservative hydrochloric Acid litric Acid ulfuric Acid odjum Thiosulfat gdlum Hydroxide inc Acetate DTA			ATIVES AND		7///							TIVE CODES
SAMPLE ID	NO. & TYPE OF CONTAINERS	SAMPLING DATE / TIME	MÄTÄIX	SAMPLE COMP/GRAB		)Y	//					//				COMMENTS
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☐ FAX Results

□ Email Results

9-20-13

5WOOBJAK 5.14.13



Improving the environment, one client at a time...

3029-C Peters Creek Road Roanoke, VA 24019

Roanoke, VA 24019 TEL: 540.777.1276 101 17th Street Ashland, KY 41101 TEL: 606,393.5027 1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.777.1276 16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500 Website: www.reiclabs.com

Thursday, May 09, 2013

JANIS RICHARDSON WESTERN VA WATER WWTP 1540 UNDERHILL AV ROANOKE, VA 24014

TEL: (540) 853-1517 FAX: (540) 853-1307

RE: STORM WATER

COD

Work Order #: 1305792
Dear JANIS RICHARDSON:

REI Consultants, Inc. received 2 sample(s) on 5/8/2013 for the analyses presented in the following report.

Sincerely,

Joy Castle

Project Manager

nel à



Roanoke Regional Water Pollution Control Plant Laboratory

1502 Brownlee Avenue, SE Virginia Lab ID: 450094

Roanoke, Virginia 24014 EPA Lab ID: VA01008

<u>Method</u>

Roanoke Regional Water Pollution Control Plant 1502 Brownlee Avenue, SE

Roanoke, VA 24014 Analytical Report Date: 5/12/2013

Sample Order ID:

0506201306

Sample Received:

5/6/2013

Sample Description: Collection Date Start:

Collection Time Start:

Outfall 009 5/6/2013 13:21

End: End:

5/8/2013 16:21

Sample Number: Sample Type:

0506201306-04

Matrix:

Composite ) Surface Water

<u>Analysis</u>	<u>Result</u>	<u>Units</u>	<u>QL</u>	<u>Date</u>	Time
BOD5	5	mg/L	5	05/07/13	09:06
Total Suspended Solids	44.3			· · · · · · · · · · · · · · · · · · ·	
- Lan October 1000 Collins	44.4	ma/l	4		

LB/LW SM 5210 B mg/L 05/07/13 10:15 LW SM 2540 D

Sample Description: Collection Date Start: Collection Time Start:

Outfall 009

5/6/2013 13:21

End: End: 5/6/2013 16:21

Sample Number: Sample Type:

0506201306-05 Composite )

<u>Analyst</u>

Conection time Start:	13:21	Enc	d: 16:	21	Matrix:		Surface	Water
Analysis Total Kjeldahl Nitrogen		Result	<u>Units</u> mg/L	<u>QL</u> 1	Analysis <u>Date</u> 05/07/13	Analysis Time 08:11	Analyst L8	<u>Method</u> SM 4500-NH3 D
Total Phosphorus		0.26	mg/L	0.05	05/07/13	13:50	LW	SM 4500-P E

<sup>&</sup>quot;It certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

05/12/13 Laboratory Supervisor / Analyst

"I certify that the aforementioned data has been evaluated using reasonable and accepted Quality Assurance and Control procedures and methods including, where necessary, discussion with the Supervisor directly responsible for the data and / or the individuals actually completing the necessary procedures to produce the data. By signature, this data meets the established criteria for Quality Assurance and Control review."

Quality Assurance Control Coordinator

**RECEIVED** 

MAY 2 1 2013

CHA Consulting, Inc.



### WESTERN VIRGINIA WATER AUTHORITY

Roanoke Regional Water Pollution Control Plant Laboratory 1502 Brownlee Avenue, SE Roanoke, Virginia 24014

Virginia Lab ID: 450094

EPA Lab ID: VA01008

Roanoke Regional Water Pollution Control Plant

13:21

1502 Brownlee Avenue, SE

Roanoke, VA 24014 Analytical Report Date: 5/12/2013

Sample Order ID:

0506201306

Sample Received:

5/6/2013

Sample Description:

Collection Time Start:

Outfall 009 Collection Date Start:

5/6/2013 End:

End:

Sample Number: Sample Type:

0506201306-01

Matrix:

Surface Water

Grab >

<u>Analysis</u>	Result	<u>Units</u>	<u>QL</u>	Analysis <u>Date</u>	Analysis <u>Time</u>	<u>Analyst</u>	<u>Method</u>
BOD5	ND	mg/L	5	05/07/13	09:06	LB/LW	SM 5210 B
pH Austr	7.4	su		05/06/13	13:32	LW	SM 4500-H+B
Total Residual Chlorine	obe ND	mg/L	0.1	05/06/13	13:33	LW	SM 4500-CI G
Total Suspended Solids	3.4	mg/L	1	05/07/13	10:15	LW	SM 2540 D
	1		······································				

Sample Description: **Collection Date Start:** 

Escherichia coli

Outfall 009

5/6/2013 13:50

End: End:

980

Sample Number:

Sample Type:

0506201306-02 Grab)

05/06/13

14:04

LB

Colilert

Collection Time Start: 13:50		End:				Matrix:		Surface Water		
<u>Analysis</u>		Result	<u>Units</u>		<u>QL</u>	Analysis <u>Date</u>	Analysis <u>Time</u>	<u>Analyst</u>	Method	
Total Kjeldahl Nitrogen	Comp	1.1	mg/L		1	05/07/13	08:11	LB	SM 4500-NH3 D	
Total Phosphorus	Comp	0.14	mg/L	,	0.05	05/07/13	13:50	LW	SM 4500-P E	
Sample Description: Collection Date Start: Collection Time Start:	Outfall 00 5/6/2013 13:50	9 End End	7			Sample N Sample T Matrix:		0506201 Grab Surface		
Analysis		Result	<u>Units</u>		<u>QL</u>	Analysis <u>Date</u>	Analysis <u>Time</u>	<u>Analyst</u>	Method	

N/100mL



Roanoke Regional Water Pollution Control Plant Laboratory 1502 Brownlee Avenue, SE Roanoke, Virginia 24014

Virginia Lab ID: 450094

EPA Lab ID: VA01008

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations."

Lisa Worksman 05/12/13

Laboratory (Superviso) / Analyst

"I cortify that the aforementioned data has been evaluated using reasonable and excepted Quality Assurance and Control procedures and methods including, where necessary, discussion with the Supervisor directly responsible for the data and I or the Individuals actually completing the necessary procedures to produce the data. By signature, this data meets the established criteria for Quality Assurance and Control review."

Quality Assurance Control Coordinato

WO#: 1305792

Date Reported: 5/9/2013

Client:

**WESTERN VA WATER WWTP** 

Project: Lab ID:

STORM WATER 1305792-01A

Client Sample ID:

**SW009 COMPOSITE** 

**Collection Date:** 

5/6/2013 4:21:00 PM

Date Received:

5/8/2013

Matrix: Site ID:

Surface Water **OUTFALL 009** 

Analysis Result PQL MCL Qual Units **PrepDate** Date Analyzed

**Field Parameters** 

Method: FLD

Analyst:

FieldSampler

LW

NA

**Chemical Oxygen Demand** 

Method: EPA410.4

Analyst: BA

Chemical Oxygen Demand

10 24

NΑ

mg/L

5/8/2013 8:30 AM

WO#: 1305792

Date Reported: 5/9/2013

Client:

WESTERN VA WATER WWTP

Project: Lab ID: STORM WATER 1305792-02A

Client Sample ID:

SW009 GRAB

**Collection Date:** 

5/6/2013 1:50:00 PM

Date Received: 1

5/8/2013

Matrix:

Surface Water

Site ID:

**OUTFALL 009** 

Analysis	Result	PQL MCL Qua	l Units	PrepDate	Date Analyzed
Field Parameters		Method: FLD			Analyst:
FieldSampler	LW	· NA			
Chemical Oxygen Demand		Method: EPA410	.4		Analyst: BA
Chemical Oxygen Demand	. 27	10 NA	mg/L		5/8/2013 8:30 AM



REIC	

REI Consultants, Inc. 225 Industrial Park Rd P.O. Box 286, Beaver, WV 25813 Phone: 304-255-2500 or 800-999-0105 FAX: 304-255-2572 e-mail: rlabs@roichos.com

CLIENT:			
ADDRESS-			
CITY/STATE/ZH/: +			
BILL TO:		_	
CITY/STATE/ZIP	week with		
PURCHASE ORDER	, et		
OUOTE »			

CHAIN OF CUSTODY RECORD NO.

CONTACT PERSON:

TELEPHONE #\*

FAX #.

E-MAIL ADDRESS.

SITE ID # STATE

PROJECT ID:

SAMPLER

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REIC	•

### CHAIN OF CUSTODY RECORD

NO.	2826	
	1.72	•

REI Consultants, Inc.	
225 Industrial Park Rd.	
P.O. Box 286, Beaver, WV 25813	
Phone: 304-255-2500 or 800-999-0105	
EAV. 204 DEE DETO	

FMA. 304-233-2312	
e-mail: rlabs@reiclabs.com	ı

CLIENT: 1974 1	CONTACT PERSON:
ADDRESS:	TELEPHONE #:
CITY/STATE/ZIP:	FAX #:
BILL TO:	E-MAIL ADDRESS:
CITY/STATE/ZIP:	SITE ID & STATE:
PURCHASE ORDER #	PROJECT ID:
QUOTE #	SAMPLER:

																PI	RES	RVA	ΤΙV	E COI	DES				
	TURNAR	OUND TIME	PRES	SERVATIVES	NOTE	PRESE	RVATI	VES -	<u>~  </u>	<u>9</u> ]	Ţ								_]						
	REQUI	REMENTS		Preservative				/。	/	Γ.	/								/			/ /	•		
SAMPLE LOG	REGULAR		1	drochloric Ac	id			Z <sup>2</sup> /									′ /		,	/ /	/ /	/ /			
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AND		3-Day		lfuric Acid dium Thiosuli	ate			' /							/ /	/	/	/ /	′.	/ /	/ /	/			
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6200 W. Mai Salem, Va. 2 PHONE: 546 FAX: 540-38	4153 0-380-2687	CLIENT: Pretrea ADDRESS: 150 CITY/STATE/ZIP CONTACT PERS	2 Browniee Av Roanoke, V	enue, SE A 24014		FAX #: E-MAIL ADD		······································
	ryl.brewer@westernvawate	r.org	ON. Jams KI	cnaroson		·	SPORTED ON ICE YES V NO.	<del>-</del>
LAB ID# (Lab Use Only)	Sample Location	Date/Time Collected	Container Type	Preservative	Sample Composite = C Grab = G	Number of Containers	Analyses Required	
131238	SW 009	05/06/13 1350	Plastic	H <sub>2</sub> SO₄	Grab	1	Nirate + Nitrite	office ~
31239	SW 009	05/06/13 1321-1621	Plastic	H <sub>2</sub> SO₄	Composite	1	Nirate + Nitrite	pHc2 ~
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Sampler (s): (S	ignature) Lisa Wilan	an Castan	Sett for	20		_0	. ^^	
Relinquished by	ignature) <u>Lipa Likelarr</u> : (Signature) Loa Limbar	Van	Date/Time:	5/02/1309	Received by: (Sig	gnature)	Date/Time	=5/2/12095
	: (Signature)				Received by: (Sig			÷:

\*

### REI Consultants, Inc. - Case Narrative

WO#: 1305792

Date Reported: 5/9/2013

Client:

WESTERN VA WATER WWTP

**Project:** 

STORM WATER

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of Individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

This report may not be reproduced, except in full, without the written approval of REIC.

#### **DEFINITIONS**

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix. Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

#### QUALIFIERS:

\*: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

#### **CERTIFICATIONS:**

Beaver, WV: WVDHHR 00412CM, WVDEP 080, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094



#### Improving the environment, one client at a time...

REI Consultants, Inc. PO Box 286 Beaver, WV 25813 TEL: 304.255.2500

Website: www.reiclabs.com

3029-C Peters Creek Road Roanoke, VA 24019 TEL: 540.777.1276

101 17th Street Ashland, KY 41101 TEL: 606.393.5027

1557 Commerce Road, Suite 201 Verona, VA 24482 TEL: 540.248.0183

16 Commerce Drive Westover, WV 26501 TEL: 304.241.5861

Wednesday, August 14, 2013

Ms. Janis Richardson WESTERN VA WATER WWTP 1502 BROWNLEE AV SE ROANOKE, VA 24014

TEL:

(540) 853-1517

FAX:

(540) 853-1307

RE: SW009

Work Order #: 1308B71

Dear Ms. Janis Richardson:

REI Consultants, Inc. received 1 sample(s) on 8/12/2013 for the analyses presented in the following report.

Sincerely,

Joy Castle

Project Manager





### Drinking Water Quality Laboratory EPA ID # 01069; Virginia ID # 00279 6200 West Main Street Salem, VA 24153

Client:

**Pretreatment Coordinator** 

Client Sample ID:

SW009

VV009

Grab &w 05/22/13

Collection Date:

Collection Time:

5/6/2013 13:50

Matrix:

SW

Method: NO3 - EPA 353.2 Nitrate

Analyst: SW

Qual.

Lab ID: 131238 Analysis
Nitrate-Nitrite

Units ma/L Result

MDL 0.02 PQL

<u>Date/Time</u> 5-17-13/15:15

Key: MCL Maximum Contaminant Level

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practice! Quantitation Limit

8 Analyte found in reagent blank, Indicates possible reagent or background contamination

E Reported value exceeded calibration range

J. Reported value is less than PQL but greater than MQL

H Holding time exceeded

PND Predsion not determined

RND Recovery not determined

X Value exceeds MCL or Regulatory level

All tests were performed according to Standard Methods for the Examination of Water and Wastewater 20th Edition and EPA Methods for the Chemical Analysis of Water and Wastewater.

Quality Assurance Officer: Chery? J. Brewer



Drinking Water Quality Laboratory EPA ID # 01069; Virginia ID # 00279 6200 West Main Street Salem, VA 24153

Client:

Pretreatment Coordinator

Collection Date:

5/6/2013

Client Sample ID:

SW009

Collection Time:

13:21-16:21

Composite du 05/22/13

Matrix:

SW

Method: NO3 - EPA 353.2 Nitrate

Analyst: SW

Lab ID: 131239

Analysis
Nitrate-Nitrite

Units Resu

MDL 0.02 Qual.

Date/Time 5-17-13/15:16

Key: MCL Maximum Conteminant Level

MDL Minimum Detection Limit

NA Not Applicable

ND Not Detected at the PQL or MDL

PQL Practical Quantitation Limit

B Analyte found in reagent blank, indicates possible reagent or background contamination

E Reported value exceeded calibration range

0.02

J. Reported value is less than PQL but greater than MDL

H Holding time exceeded

PND Precision not determined

RND Recovery not determined

X Value exceeds MCL or Regulatory level

All tests were performed according to Standard Methods for the Examination of Water and Wastewater 20th Edition and EPA Methods for the Chemical Analysis of Water and Wastewater.

Quality Assurance Officer: Cheryl & Brewer

WO#: 1308B71

Date Reported: 8/14/2013

Client:

WESTERN VA WATER WWTP

Project:

SW009

SW009

Lab ID:

1308B71-01A

Client Sample ID:

**Collection Date:** 

8/9/2013 3:05:00 PM

Date Received:

8/12/2013

Matrix:

Surface Water

Site ID:

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed
OIL and GREASE		Metho	d: EPA1	664A			Analyst: JJ
Oil & Grease	ND	2.0	5.0	200		mg/L	8/13/2013 8:45 AM

### REI Consultants, Inc. - Case Narrative

WO#: 1308B71

Date Reported: 8/14/2013

Client:

WESTERN VA WATER WWTP

Project:

SW009

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP (and/or VELAP) requirements for parameters except as noted in this report.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

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#### **DEFINITIONS:**

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix. Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

#### QUALIFIERS:

- \*: Reported value exceeds required MCL
- B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
- E: Analyte concentration reported that exceeds the upper calibration standard. Greater uncertainty is associated with this result and data should be consider estimated.
- H: Holding time for preparation or analysis has been exceeded.
- J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
- S: % REC (% recovery) exceeds control limits

#### **CERTIFICATIONS**

Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, TNDEQ TN02926, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460149, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460150 Verona, VA: VADCLS(VELAP) 460151 Ashland, KY: KYDEP 00094, WV 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387



Date Reported: 8/14/2013

Client:

WESTERN VA WATER WWTP

Project:

SW009

Test Code:

1664\_HEM

Sample ID:	MB-R309472	Samp Type:	MBLK	•	Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	309472	
Client ID:	PBW	Batch ID:	R309472		TestNo:	EPA1664A			Analysis	Date:	8/13/2013 Se	qNo:	4627312	
Analyte		I	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease			ND	5.0										
Sample ID:	LCS-R309472	Samp Type:	LCS		Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e: ·	Ru	nNo:	309472	
Client ID:	LCSW	Batch ID:	R309472	-	TestNo:	EPA1664A			Analysis	Date:	8/13/2013 Se	qNo:	4627313	
Analyte			Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease			35.4	5.0	40.0	0		88.5	77,9	114.1				
Sample ID:	R309472LCSD	Samp Type:	LCSD	-	Test Code:	1664_HEM	Units:	mg/L	Prep Dat	e:	Ru	nNo:	309472	
Client ID:	LCSS02	Batch ID:	R309472	-	TestNo:	EPA1664A			Analysis	Date:	8/13/2013 Se	qNo:	4627314	
Analyte		1	Result	PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qua
Oil & Grease			38.7	5.0	40.0	0		96.8	77.9	114.1	35.4	8.9	20	

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SAMPLE LOG & ANALYSIS REQUEST  TURNABOUND TIME RUSH TURNARQUEDD STORY   3 DAY   2 DAY   1 DAY	D-OHIO VALLEY   SHENANDOAH   ROANDKE   Service Center   Service Center   Service Center   1557 Commerce Rdi, Ste 201   3029-C Peters Creek Rt   Service Center   1557 Commerce Rdi, Ste 201   Roandke, VA 24019   605-393-5027   540-248-0183   540-777-1278   540-		
TURNAROUND TIME  SUSH TURNAROUND  NORMAL  S DAY  Aush work needs prior laboratory approvial and will incur additional changes  SAMPLEID		EST OF	
Containers  Containers  Containers  Seq. (3 1505 Sc.// Grab)  O None  S Sodium Hydroxide  1 Hydrochforic Acid  S Sinc Acetate  1 Hydrochforic Acid  3 Suifuric Acid  3 Suifuric Acid  4 Sodium Thiosuitine  COMMENTS:  COMMENTS:  Systical requests are subject to REIC's Standard Terms and Containings  Temperature at arrivals  S O ICED? Y N N Containers provided by: [WREIC [ ] Client  S Sodium Hydroxide  1 Hydrochforic Acid  5 Sodium Hydroxide  1 None  5 Sodium Hydroxide  1 None  5 Sodium Hydroxide  1 None  1 N	NORMAL S DAY 3DAY 2DA	PID   NAY   NAY	
1 Hydrochlonic Acid 5 Zinc Acetate 2 Ninci Acid 5 Zinc Acetate 7 EDTA 3 Sulfuric Acid 5 Ascorbic Acid 6 Ascorbic Acid 7 EDTA 7 Sodium Thiosulfate COMMENTS:  Institute of the Acid 7 EDTA 8 Ascorbic Acid 8	SAMPLEID No. 6 Type of Sampling Date/It	ime Matrin Guepple GarppCraio	
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